

## RUTGERS SCIENTIFIC SCHOOL

## THE STATE COLLEGE

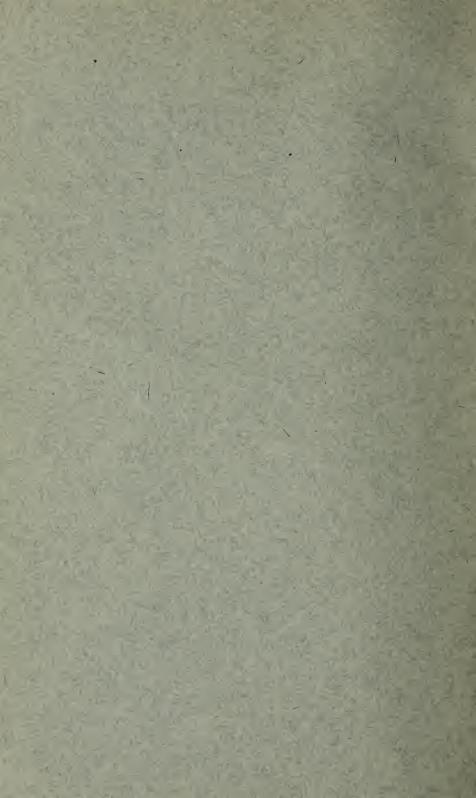
for the benefit of

Agriculture and the Mechanic Arts

NEW BRUNSWICK, N. J.

Forty-Eighth Annual Report, October 31, 1912

UNION HILL, N. J.
DISPATCH PRINTING COMPANY,
1913



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## THE STATE COLLEGE

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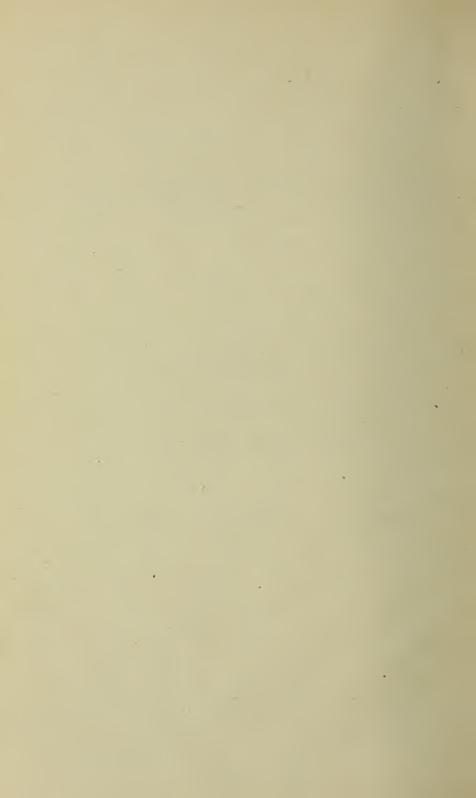
NEW BRUNSWICK, N. J.

Forty-Eighth Annual Report, October 31, 1912

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#### BY ELECTION.

Name.	Address. Date of Election.
REV. WM. H. S. DEMAREST, D.D., LL.D	
President of the College	
DAVID BINGHAM, ESQ	East OrangeMar. 7, 1882
TUNIS G. BERGEN, PH.D	. Brooklyn, N. YJune 19, 1883
FREDERICK FRELINGHUYSEN, A.M	
JAMES NEILSON, A.M., LL.B	
REV. FDWARD B. COE, D.D., LL. D	
REV. JAMES LEFEVRE, D.D	SomervilleJune 16, 1888
FREDERICK J. COLLIER, A.M	. Hudson, N. Y June 16, 1891
PAUL COOK, A.M	Troy, N. YJune 16, 1891
HON. GARRET D. W. VROOM, LL.D	TrentonJune 21, 1892
x J. BAYARD KIRKPATRICK, A.M	New BrunswickJune 21, 1892
WILLIAM H. LEUPP, A.M	New BrunswickJune 18, 1895
REV. J. PRESTON SEARLE, D.D	
JOHN W. HERBERT, JR., M.SC., LL.B	HeimettaJune 19, 1901
HON. WILLIAM H. VREDENBURG, LL.D	Figure 1 Cot 99 1009
HON, FOSTER M. VOORHEES, LLD	Now York N. V. June 17 1002
HON. ALPHONSO T. CLEARWATER, LL.D	
HOWARD N. FULLER, A.M	Albany N V Tan 19 1005
L. LAFLIN KELLOGG, LL.D	Now York N V Jan 19 1005
REV. JOSEPH R. DURYEE, D.D	New York N V Mar 7 1905
PHILIP M. BRETT, A.B., LL.B	New York N V Jan 11 1906
CHARLES L. EDGAR, E.E.	Boston, Mass Oct. 12, 1906
W. EDWIN FLORANCE, A.M	New Brunswick Oct. 12, 1906
DRURY W. COOPER, A.B., LL.B	New BrunswickOct. 9, 1908
HON. WILLARD P. VOORHEES, A.M., LL.D	New BrunswickJune 23, 1909
REV. WILLIAM I. CHAMBERLAIN, D.D	
LEONOR F. LOREE, M.SC., C.E	. New York, N. YOct. 8, 1909
DUNCAN D. SUTPHEN, A.B	. New York, N. YOct. 8, 1909
*S. OAKLEY VANDER POEL, M.D	New York, N. YOct. 14, 1910
+Anthony Dey, A.M	. New York, N. YJune 21, 1911
REV. HENRY EVERTSON COBB, D.D	. New York, N. YOct. 13, 1911
REV. WILLIAM BANCROFT HILL, D.D	. Poughkeepsie, N. Y.Jan. 9, 1912
JOHN HOWARD FORD, ESQ	. New York, N. YJan. 9, 1912
HON. WILLIAM SHIELDS MYERS, D.SC	New York, N. Y Apr. 12, 1912
HOWARD ELTING, ESQ	. Chicago Oct. 11, 1912

x Died September 6, 1912. \* Died April 22, 1912. † Died October 11, 1912.

#### OFFICERS OF THE BOARD.

#### STATED MEETINGS OF THE BOARD.

Second Friday in October, second Tuesday in January, and second Friday in April at 2 p. m.; commencement day at 9:30 a. m.

## Board of Visitors.

FIRST CONGRESSIONAL DISTRICT.

EPHRAIM T. GILL. Haddonfield ALEXANDER P. OWEN. Mickleton
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ARTHUR LOZIER Ridgewood HENRY MARELLI Paterson
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GEORGE E. DE CAMP Roseland GEORGE M. CANFIELD Caldwell
EIGHTH CONGRESSIONAL DISTRICT.
*George Dorer
NINTH CONGRESSIONAL DISTRICT.
James McCarthy Jersey City John R. Hartung Jersey City
TENTII CONGRESSIONAL DISTRICT.
DANIEL COLE

DAVID D. DENISE, President.
IRVING S. UPSON, Secretary and Treasurer.

<sup>\*</sup> Died, April 18, 1912.

## Faculty.

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A.B., A.M., D.D. (Rutgers); LL.D. (Columbia, Union, Pittsburgh)
Seminary Place

FRANCIS CUYLER VAN DYCK
A.B, A.M. (Rutgers); Ph.D. (Union); D.Sc. (Rutgers)

Professor of Physics and Experimental Mechanics

11 Grant Avenue

CHARLES EDWARD HART
A.B., A.M. (Princeton); D.D. (Rutgers)

Emeritus Professor of Ethics and Evidences of Christianity

33 Livingston Avenue

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A.B. (Yale); A.M. (Univ. Mich.); Ph.D. (Leipsic); LL.D. (Princeton)

Voorhees Professor of History and Political Science

24 Livingston Avenue

LOUIS BEVIER, Dean
A.B., A.M. (Rutgers); Ph.D. (Johns Hopkins); Litt.D. (Rutgers)

Professor of the Greek Language and Literature

Bishop Place

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B.Sc., M.Sc., C.E., D.Sc. (Rutgers)

Professor of Civil Engineering

590 George Street

JULIUS NELSON
B.Sc., M.Sc. (Univ. Wis.); Ph.D. (Johns Hopkins)
Professor of Biology.

Adelaide Avenue

Byron David Halsted
B.Sc., M.Sc. (Mich. Ag. Coll.) Sc.D. (Harvard)

Professor of Botany and Horticulture

121 Livingston Avenue

\*John Bernhard Smith
D.Sc. (Rutgers)
Professor of Entomology

John ('harles Van Dyke L.H.D. (Rutgers) Professor of the History of Art

564 George Street

<sup>\*</sup> Died March 12, 1912.

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Professor of Mathematics and Astronomy
Director of the Schank Observatory

7 Grant Ave.

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Professor of the History of Teaching

Associate Professor of the German Language and Literature

The Bayard

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A.B., Ph.D. (Johns Hopkins)
Professor of the Latin Language and Literature

35 Mine Street

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B.E. (Univ. N. C.); S.B. in Geol. (Harvard)

Professor of Geology and Mineralogy

Director of the Geological Museum

4 Union Street

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B.L. (Dartmouth)
Professor of Romance Languages

145 College Avenue

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Registrar, Secretary of the Faculty

64 College Avenue.

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A.B. (Univ. Vt.) Ph.D. (Syracuse)

Professor of the German Language and Literature

39 College Avenue

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A.B., A.M., D.D. (Hamilton)

Professor of Ethics and Evidences of Christianity

41 Mine Street

RALPH GARRIGUE WRIGHT

B.S. (Columbia); Ph.D. (Basle) Profesor of Chemistry

Bishop Place

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M.E. (Lehigh)

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35 College Avenue

CULLEN WARNER PARMELEE

B.Sc. (Rutgers)
Professor of Ceramics

Adelaide Avenue

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The Bayard

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94 Easton Avenue

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5 Senior Street

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B.Sc. (Rutgers); M.A., Ph.D. (Cornell)
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Director of the Agricultural Experiment Stations, the
Short Courses in Agriculture, and the College Farm
College Farm

ARTHUR EMMETT AHRENDS

First Lieutenant 29th Infantry, U. S. A. Professor of Military Science and Tactics

The Bayard

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Principal of Short Courses in Agriculture

170 Nichol Avenue

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189 College Avenue

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Professor of the Art of Public Speaking

172 College Avenue

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A.B. (Stanford); A.M. (DePauw); Ph. D. (Ohio State Univ.)

Professor of Plant Pathology

92 Lawrence Avenue

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B.A. (Wesleyan); Ph.D. (Columbia) Professor of the Science of Teaching

8 Richardson Street

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B.A., M.A. (Univ. Ind.); Ph.D. (Cornell)

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29 Lincoln Avenue

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172 College Avenue

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142 Hamilton Street

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Winants Hall

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144 Hamilton Street

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B.Sc. (Rutgers); M.A., Ph.D. (Univ. Penn.)

Associate Professor of Chemistry

17 Huntington Street

HENRY BRIGGS NORTH

Ph.G., B.S., M.A. (Univ. Wis.); D.Sc. (Paris)

Associate Professor of Chemistry

21 Huntington Street

MAURICE ADIN BLAKE

B.S. (Mass. Agr. Coll.)
Associate Professor of Horticulture

124 Hamilton Street

FRED HERBERT DODGE

A.B. (Yale)
Instructor in Physical Training
Director of the Ballantine Gymnasium

116 Hamilton Street

CLARENCE WARD

A.B., A.M., (Princeton)
Assistant Professor of the History of Art

39 Lincoln Avenue

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B.Sc., M.Sc. (Rutgers)
Assistant Professor of Physics

4 Union Street

FREDERICK CHARLES MINKLER

B.S. (Iowa State Coll.)
Assistant Professor of Animal Husbandry

Nichol Avenue

ALBERT RITTENHOUSE JOHNSON

B.Sc. (Rutgers)
Assistant Professor of Mathematics

121 Codwise Avenue

WILLIAM BERTRAM TWISS

A.B. (Dartmouth); A.M. (Harvard)
Assistant Professor of English

6 Grant Avenue

## Other Instructors, Officers and Assistants.

GEORGE AUGUSTUS OSBORN

B.Sc. (Rutgers)
Librarian

15 Grant Avenue

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. A.B., A.M., D.D. (Rutgers)

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Lecturer on the English Bible

185 College Avenue

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A.B. (Beloit); A.M. (Harvard); Ph. D. (Chicago)

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Lecturer on the Geology of New Jerey

Trenton

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266 Redmond Street.

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172 Somerst Street

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Alumni and Faculty House

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196 Somerset Street

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Instructor in Dairy Husbandry

69 Paterson Street

FLOYD EARLE CHIDESTER

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Instructor in Biology

70 Lawrence Avenue

CHARLES HALE

Instructor in English

Alumni and Faculty House

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A.B. (Columbia); L.H.M. (New York Univ.)

Instructor in Mathematics

Hertzog Hall

EARLE COOK STILLWELL

B.Sc. (Rutgers)

Instructor in Horticulture

College Farm

JOHN PUTNAM HELYAR

B.S., M.S. (Univ. Vt.)

Instructor in Botany

120 Hamilton Street

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B.S. in C.E. (Tufts)

Instructor in Mathematics

The Bayard

LUTHER HARNED MARTIN

Assistant Registar

Metuchen

GEORGE WINFIELD NUTTMAN

B.Sc., M.Sc. (Rutgers)

Assistant in the Library

Alumni and Ficulty House

MARION CUSHMAN

Assistant in the Library

Raritan Avenue

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A.B. (Mt. Holyoke)

Assistant in the Library

2 Richardson Street

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Secretary to the President

Seminary Place

WILLIAM SEYMOUR VALIANT

Assistant in the Geological Museum

132 New Street

EARL EDWARD VANDERWERKER

B.Sc. (Rutgers)
Office Assistant

Seminary Place

LUTHER EDWARD RIDDLE, JR.

Office Assistant

Metuchen

JOHN VAIL BISSETT

B.Sc. (Rutgers)
Assistant in Chemistry

420 George Street

GEORGE HOWARD BALDWIN

B.Sc. (Rutgers)
Assistant in Ceramics

Winants Hall

HOWARD MATTHEW GARGAN

B.S. (Fordham)
Assistant in Physical Training

52 College Avenue

## The Kellogg Lecturers.

This lectureship was founded by Luther Laflin Kellogg, LL.D., of the class of 1870.

Lecturers 1908-1909.

C. RAYMOND BEAZLEY, M.A., D.Litt.

Fellow of Merton College, Oxford University
University Lecturer in the History of Geography

EUGENE KÜHNEMANN, Ph.D.
Professor of Philosophy, University of Breslau
Visiting Professor of German Literature, Harvard University

Hon, George B. McClellan, LL.D.

Mayor of New York City

Lecturers 1909-1910

BARON DAIROKU KIKUCHI, LL.D.
President of the Imperial University of Kyoto, Japan

('HARLES W. ELIOT, LL.D.
President Emeritus of Harvard University

Lecturers 1910-1911.

HON. ANDREW S. DRAPER, LL.D.

Commissioner of Education of the State of New York

BLISS PERRY, L.H.D., LL.D.
Professor of English Literature, Harvard University

Lecturers 1911-1912.

Hon. James Bryce, D.C.L., LL.D.
Ambassador of Great Britain to the United States

EDWIN A. ALDERMAN, D.C.L., LL.D.

President of the University of Virginia

HENRY VAN DYKE, D.D., LL.D. Professor of English Literature, Princeton University

## Report of the State Board of Visitors.

To His Excellency, Woodrow Wilson, Governor of the State of New Jersey:

Sir—The Board of Visitors to the State Agricultural College herewith present their forty-eighth annual report upon the present condition and courses of instruction at that institution, as required by the act creating the Board, entitled, "An act appropriating scrip for the public lands granted to the State of New Jersey by the Act of Congress approved July second, one thousand eight hundred and sixty-two," and approved April 4th, 1864.

The members of the Board made an annual examination of the students pursuing the regular and special courses of instruction on the 19th day of December, 1911. They also visited the laboratories, the draughting rooms, the military drill hall, the collections of the institution and the farm provided for the State Agricultural College by the Trustees of Rutgers College. They also examined the preparations made for the classes in the Short Courses in Agriculture.

The Board adopted a resolution expressing its full satisfaction with the courses and facilities of instruction offered by the Trustees of Rutgers College, of the continued devotion of the professors and instructors in their various lines of class and laboratory instruction, and of the proficiency of the students in their various branches of study.

During the year the membership of the Faculty has been 52, and all but four of this number have given instruction in the Scientific School.

The enrollment of students for the year was 672; graduate students, 4; seniors, 66; juniors, 74; sophomores, 92; freshmen, 144; special students, not candidates for a degree, 130, and preparatory school pupils, 162. The degree of Bachelor of Science was conferred upon 43 graduates in June, 1912. Of these graduates, 7 had pursued the Course in Agriculture, 2 the Course in Biology, 8 the Course in Chemistry, 3 the Course in Ceramics, 13 the Course in Civil Engineering, 2 the Course in Electrical Engineering, 6 the Course in Mechanical Engineering, and 2 the Course

in General Science. The degree of Bachelor of Arts was conferred upon II candidates and the degree of Bachelor of Letters upon II candidates at the same time.

Beginning with the Class of 1013 in September, 1012, the Seniors pursuing the Four-Year Course in Agriculture will be allowed a wide latitude in the choice of elective subjects.

The State of New Iersey has made the following Special appropriations:

For	Short Course Building Repairs and Improvements	\$2,000
For	College Farm Roads and Grading	3,000
For	Farm Buildings for Dairy Husbandry	12,000
For	Erection of an Agricultural Building	100,000

The following is a list of the members of the graduating class of 1012, with the subject of each graduate's thesis:

#### GRADUATION THESES-CLASS OF 1912.

JAMES K. ALVERSON, East Orange, N. J.

American Playgrounds

HAROLD CURTICE AMOS, Rochester, N. Y.

Eugenics, The Solution of Certain Public Problems John Arthur, Newark, N. J.

High Pressure Water Systems

GEORGE DAVID AUCHTER, Jersey City, N. J.

The Pennsylvania Railroad Company's Stone Arch Bridge over the Raritan River at New Brunswick, New Jersey

PERRY- HADWICK BASCOM, Middlebush, N. J. The Blue Limestones of New Jersey

JOHN VAIL BISSETT, New Brunswick, N. J.

Aniline

EDWARD FRANCIS BLATZ, Elizabeth, N. J.

The Triphenylmethane Dyestuffs Walter Sax Bloom, Catskill, N. Y.

Use of the Optative and Subjunctive Moods in New Testament Greek

WALTER COX BOWEN, Shiloh, N. J.

The Sewerage System and Sewage Disposal Works of Easton, Md.

FRED ARTHUR BRIEGS, Perth Amboy, N. J.

Vocal and Instrumental Music in Public Schools LEONARD STOTT BRIGGS, Firthcliffe, N. Y.

Colored Glazes for Terra Cotta

HAROLD JASPER CADMUS, Ridgewood, N. J.

A Study of Certain Gums

ALAN DITCHFIELD CAMPBELL, New Brunswick, N. J.

The Technique of a College Man's Life ROBERT STEPHEN CLEAVER, Schuylerville, N. Y.

The Quarantine Service of the State of New York

HENRY CLIFTON COOPER, Collingswood, N. J.

. Colored Underslips

ELBRON FISHER, New Brunswick, N. J.

Design of Heating and Lighting Plant for Rutgers College
FRANCIS CLYDE FITTING, Philadelphia, Pa.

Farm Laborers in the United States

SAMUEL FURMAN FOSTER, Bayhead, N. J. Future Sources of Nitrogeneous Fertilizers

FRED MONTGOMERY FOUNTAIN, Hackensack, N. J.

Bismarck's Policy in the Franco-Prussian War of 1870-71

RUSSELL WOODWORTH GIES, Newark, N. J.

Bird Migrations

SEYMOUR PARKER GILBERT, JR., Bloomfield, N. J.

Has a State Power to Rescind Its Ratification of a Proposed Amendment, before such Amendment shall Have been Incorporated in the Constitution of the United States?

AUGUSTUS LEMUEL GLADDING, Lincoln, Cal.

Colored Underslips

FREDERIC GLANDER. Bloomfield. N. J.
Heating and Lighting Plant for Rutgers College JACOB WALTER GROENDYKE, Monmouth Junction, N. J.

The Limitation of Royal Power in Germany in the Nineteenth Century

AARON MARTIN HAGEMAN, Bound Brook, N. J.

The Action of Thionye-Chloride on Metals and Metallic Oxides

GEORGE EDWARD HAGEMAN, Newark, N. J. Scientific Shop Management

Albert Lewis Hagen, Cranford, N. J.

The Production and Cost of Certified Milk

EDWIN HOWE HALSTEAD, New Brunswick, N. J.

The Relation of Nitrogen to the Agriculturist VALENTINE BRITTON HAVENS, New Brunswick, N. J.

Methods in Debate

HERBERT WILLIAM HEILMANN, Newark, N. J.

The Water Supply System of the City of Newark, N. J.

WILLIAM GETTIER HERRMAN, Plainfield, N. J. Heredity in Its Relation to Disease

HENRY KILMER HOTALING, Glenmont, N. Y. The Philosophy of William James

HENRY VICTOR JACOBSON, Newark, N. J.

The Parks of Newark. N. J.

Oran Keller, New Brunswick, N. J. Salicylic Acid and Derivatives

RALPH JACOB KIEFFER, Lake Katrine, N. Y.

Power Requirements of the Pennsylvania's New York Terminal

ALSON CARLTON I LEWELLYN, Moorestown, N. J.

Power Requirements of the Pennsylvania's New York Terminal

JOHN FRANCIS McGOVERN, JR., New Brunswick, N. J. Serum Therapy

JOHN PRESTON MAILLER, Cornwall, N. Y.

Variable-Speed Power Transmission

James Walter Mailler, Cornwall, N. Y.
Estimates for Lighting and Heating Plant for Rutgers College

JOHN OSBORN MARSH, Rahway, N. J.

The Water Supply of the City of Rahway, New Jersey

GEORGE WILLARD MARTIN, Metuchen, N. J.

The Origin and Development of the English Sonnet

WILLIAM HERBERT MARTIN, Bloomfield, N. J. High Vacuum Condensers and Air Pumps

Louis Fowler Merrill, Sergeantsville, N. J.

The Grange as a Factor in Rural Life.

JOHN DITTGEN MORRISON, Ridgefield Park, N. J. Pragmatism.

MILO CLAUDE MOSEMAN, Tannersville, N. Y.

The Scope of the Phrase "From Whatever Source Derived" in the Amendment Now Pending for Adoption by the States.

ALFRED ARTHUR NELSON, South Amboy, N. J.

Buccleuch Park

JOHN RICHARD NEVIUS, New Brunswick, N. J.

Buccleuch Park

HERBERT RAMSEY PEEBLES, Paterson, N. J.

Gravity Filter Plant for Rutgers College, New Brunswick, N. J.

JACOB PRESS, Harrison, N. J.

Examination of the Meaning and Content of the Word "Education"

Donald Ross, Newark, N. J. A Few Essential Oils

VIVIAN CLINTON ROSS, New Brunswick, N. J.

Trial by Jury, with Reference to its Beginnings

ROBERT SCHMIDT, Yorktown, Va.

Peach Production in New Jersey

EDWARD COLLIER SCOTT, OSWEGO, N. Y.

The Analysis and Identification of Paint Oils

ERNEST WELD SCUDDER, Atoka, Okla.

The Psychology of Advertising

RICHARD ALEXANDER SMITH, New Brunswick, N. J.

The National Workshops Experiment in France under the Provisional Government

STEPHEN PARSONS SMITH, Leesburg, N. J.

Present and Proposed New Jersey Canals

WILLIAM EMMONS SMOCK, Newark, N. J.

A Proposed System of Sewerage for Milltown, N. J.

WM. RUDOLPH FUERCHTEGOTT STIER, Sayreville, N. J.

Psychology of Interest

HAROLD MOREOCK TERRILL, Rahway, N. J.

Esters and Amides

ARTHUR BENTLEY TITSWORTH, Plainfield, N. J.

Types of Internal Combustion Motors

EARLE EDWARD VAN DERWERKER, Schuylerville, N. Y.

The Sanitary Aspects of Tuberculosis

ELMER LEIGH WALKER, Newark, N. J.

A Sewerage System for Milltown, N. J. DEXTER WHITE, New York, N. Y.

Suffrage in the Different States

LEROY COLVER WILSEY, Newark, N. J.

The Rise of Homeopathy

FREDERICK WOELFLE, Brooklyn, N. Y.

The Types and Requirements of the New York City Egg Market

# APPOINTEES TO STATE SCHOLARSHIPS UNDER ACT OF 1864.

No.		
Counties. Sch.	Appointees. Class.	Residence.
Atlantic1	Stanley U. North1915	Atlantic.
Bergen1	William C. Ball1913	Bergen.
Burlington1	Joseph R. French1915	Burlington.
2	Robert F. E. Stier1915	Middlesex.
3	Laurence W. Schenck1916	Atlantic.
Camden1	E. Tiel Smith1913	Camden.
2	- ,	
Cape May1	Marvin Leeds1915	Atlantic.
Cumberland1	James L. Handford1915	Cumberland.
Essex1	R. Parkhurst Dickerson1914	Essex.
2	Louis B. Gittleman1916	Essex.
3	Toby Furst	Essex.
4	Eugene F. Rockafeller1916	Monmouth.
5	Raymond Strohl1916	Union.
6		
Gloucester1	Donald B. Atchley1916	Monmouth.
Hudson1	Albert E. Mercker1915	Hudson.
2	John C. Green, Jr1915	Warren.
3	Donald L. Havens1913	Middlesex.
4	Frank E. Field1913	Somerset.
5	Herbert F. Haley1916	Union.
6		
Hunterdon1	H. Milton Allen1914	Hunterdon.
Mercer1	Francis E. Weis1913	Mercer.
2	George M. Bechtel1914	Mercer.
Middlesex1	Carl F. N. Hegstrom1913	Middlesex.
2	Oren F. Browning, Jr1914	Middlesex.
Monmouth1	Robert E. McMichael1916	Monmouth.
2	Robert P. Hulsart1916	Monmouth.
Morris1	Louis W. Martin1915	Middlesex.
2	Herbert C. Segur1916	Monmouth.
Ocean1	Ralph G. Seiler1916	Union.
Passaic1	Harry B. Smith1915	Somerset.
2	George H. Buck1916	Union.
Salem1	Eugene R. Taylor1916	Salem.
Somerset1	Claremont W. Masker1913	Somerset.
Sussex1	Obadiah P. Armstrong1916	Sussex.
Union1	William H. McCallum1914	Union,
2	Edward P. Smaney1916	Union.
Warren1	George R. Merrill1913	Warren

# APPOINTEES TO ASSEMBLY DISTRICT SCHOLARSHIPS UNDER ACT OF 1890.

Name.	County.	Class.
Walter Bastedo		1913
Walter C. Bauer	·	1913
Whitfield J. Bell		1913
Arthur D. Berg	venMorris	1913

Name.	County.	Class.
E. Dudley Chase	. Essex	1913
Jacob Chob-Richer		
Charles H. Connors		
Frank H. Conover	.Hudson	1913
Lester E. Cook		
Ralph E. Cooper	.Essex	1913
Louis M. Davis	. Somerset	1913
Clifford E. Dennis	.Sussex	1913
F. Walker Flanagin	. Morris	1913
Joseph K. Folsom	.Essex	1913
Elmer S. Grymes	. Passaie	1913
Cuthbert W. Haasis		
Paul W. Haasis	.Hudson	1913
J. Parker Hickman, Jr	. Monmouth	1913
Walter Hornbruch		
Raymond D. Howell		
Frederick J. Johnson		
August Leistner		
Weston Lennox		
Oliver F. Mitchell	Huntardan	1013
T. Vassar Morton	Resor	1010
Herman A. Newmark		
Lawrence H. Opdycke	Hudson	1013
G. Stanley Robins	Bergen	1913
G. Raymond Robinson	Burlington	1913
Morris Schecter	Essex	. 1913
Cornelius F. Schenck	Passaic	1913
Harold W. Schenck	Passaic	1913
Samuel M. Sharkev	Mercer	1913
Farl R. Silvers	. Union	. 1913
	. Camden	
Charles C. Stover	Mercer	1913
Charles A. Titus	Morris	1913
Frederick N. Van Deripe	. Middlesex	1913
Henry L. Van Mater	Essex	. 1913
Paul Walrath		
Adolph H. Baumann Oren F. Browning, Jr	Middlegar	. 1914
Lindley G. Cook	Morris	1014
Samuel C. Cooper		
Edward J. Crane		
Robert G. Dooling	Gloucester	1914
John T. Finegan	Essex	1914
Alfred A. Gaipa	Hudson	1914
Charles H. Gant	Monmouth	.1914
Samuel I. Hoddeson	Middlesex	.1914
Howard F. Huber	Middlesex	.1914
William T. Hulsizer	Hunterdon	.1914
John Lowery, Jr	Essex	. 1914
Reginald P. Lukens	Union	. 1914
Eric W. Luster		
Bryce I. MacDonald		
George R. Maxson	Hudson	.1914
Louis R. Menagh, Jr	riudson	. 1914

Name.	County.	Class.
Arthur C. Metcalf	. Passaic	1914
James Morrow		
Edward T. Paxton	Monmouth	1914
Arthur A. Prentiss	Hudson	1914
Thomas U. Purrington	. Mercer	1914
Edward R. Schmid	Essey	1914
George W. Schmidt	Hudson	1914
Herbert Simon	Fesov	1914
Harold Solomon	Camden	1914
J. Archer Stackhouse		
William W. Summerill		
Theodorus M. Thorburn	Pagain	1914
Frank L. Walton	Union	1014
Joseph A. Ward	Ocean	1014
Louis K. Wilkins	Hunterdon	1914
Stanley N. Williams	Paggaio	1014
Carl R. Woodward	Monmouth	1014
Frederick C. Brush	Cumberland	1015
William H. Campbell, Jr	Cana May	1015
Murray A. Chittick	Hudson	1015
Charles B. Conover	Trade	1017
Horace V. Cory		
DuPlessis H. Crowe	Danage	1915
Durlessis fi. Crowe	. bergen	1915
Douglas Cummings	. Essex	1915
Spencer D. Embree	. Passale	1915
Charles H. Engelhard	Sussex	1915
Russell Fleming	.Hugson	1915
Joseph Friedman	. Middlesex	1915
Benjamin A. Furman	.Essex	1915
Lawrence G. Gillam	. Durlington	1915
Louis N. Grier		
Mahlon L. Harker	Essex	1915
Ralph M. Hubbard	, Essex	1915
Russell W. Hunt	Wildlager	1915
Joseph Kerr	Margar	1195
Emerich J. Kuhn	Fagar	1915
Arthur Kuntz	Fagor	1915
Herman J. Levine	Hudaan	1915
Lloyd N. Lewis	Morris	1915
W. Durward McCloskey		
Samuel Mandel	Fagor	1915
C. Raymond Martin	Fagor	1915
Lester D. Murray	Hudson	1915
George D. Norcom	Con- Mos-	1915
Bernard Pear	Undgo	1915
William S Dorts	Hudson	1915
William S. Porte	Middlegov	1915
Leo Rogin	Hudson	1915
Ime M. Rose	Somework	1915
Compal T Cohe	Atomtic	1915
Samuel L. Sahn	Pagasia	1915
Russell J. Savitz	Hudson	1915
Albert M. Schultz	.Hudson	1915
Alfred F. W. Sfarra	.Passaic	1915

Name.	County.	Class.
Samuel Silbert	Union	1915
William H. Stang	Camden	
Irving B. Stanton	Hudson	1915
Elroy W. Steedle	Burlington	1915
Theodore G. Sullivan, Jr	Camden	1915
Ralph W. Thompson	Passaie	1915
Wainwright D. Twing	Rurlington	1915
Harold W. Van Liew	Candon	1914
Selman A. Waksman	Warren	1015
Aaron Wallace	Union	1015
Allen G. Waller	Monmouth	1015
Ronson J. Warne		
A. Dudley Watson		
Harry E. Watt		
Edward Whynman	Union	1015
William P. E. Ainsworth	Rulington	1016
Raymond M. Austin	Union	1016
James M. Coleman		1010
Cliffered T. Colvilla	TT3	1910
Clifford J. Colville		
Max Drill		
Edwin Florance	Faces	1016
	Essex	
Karl F. Haenichen		1916
Ralston R. Hannas	Hudson	1916
Charles Hruby	Union	1916
J. Henry Huntington, 3rd	. Essex	1916
William T. Hutchinson		1916
Edward S. Ingham	Middlesex	1916
Dean C. Jenkins		1916
Harris T. Kille	Gloucester	1916
Albert Kreh	Camden	1916
Walter F. Kroemmelbein	Burlington	1916
Linwood L. Lee	Mercer	1916
Arthur R. Lewis		
Adrian C. Lincoln	Hudson	1916
Clifford A. McLaughlin	Essex	1916
Harvey Mann	Hudson	1916
Robert V. Martin	Hudson	1916
Julian F. Miller	amden	.,,1916
Adrian C. Minton	Sussex	1916
Edward L. Molineux, Jr	Hudson	1916
John Monteith	. Morres	1916
Edward L. Peppel	Essex	1916
Joseph Ratner	Hudson	1916
Charles H. Reed	Hudson	1916
Walter D. Reese	Morris	1916
George B. Roesch	Combonley	1916
Theodore Rosen	Porgon	1916
James B. Scarr		1016
Robert L. Scharring-Hausen	Donger Donger	1916
Ellis H. Schoonmaker	bergen	1916
Herbert W. Seidman	Cons. Morr	1916
Laurence W. Sharp		1016
Harry Sloane	Occar	1916
William S. Sprague	. Ocean	1916

Name.	County.	Class.
L. Jerome Taylor		1916
Benjamin E. Thomas	Somerset	1916
Frederick J. Ulrich		1916
John S. Voorhees		1916
Albert Watman		1916
William C. Wells, Jr		1916
Hugo O. Wendel		1916
Otto E. Wiemer		1916
Earl S. Willever		1916
	Passaic	
Walter K. Wood		1916

All of which is respectfully submitted.

D. DEMAREST DENISE,

President of the Board of Visitors.

## Report of the Board of Trustees.

To His Excellency, Woodrow Wilson, Governor of the State of New Jersey:

SIR—In compliance with the Act of Congress, approved July 2nd, 1862, and the Act of the Legislature of New Jersey, approved April 4, 1864, I beg leave to submit, on behalf of the Trustees of Rutgers College the forty-seventh annual report of Rutgers Scientific School.

The Faculty which sustained so serious a loss a year ago in the death of Professor Edward B. Voorhees, D. Sc., has met like loss again this year in the death of Professor John Bernhard Smith, D. Sc. Dr. Smith was born in New York City, November 21st, 1858. He studied law and was admitted to the bar in 1879. His intense interest and great ability in scientific study soon turned him into a different definite life-work. In 1884 he became special agent of the Entomology Division of the United States Department of Agriculture and a little later he was appointed Assistant Curator of the United States Natural History Museum. In 1889 he became Professor of Entomology at Rutgers and for the twenty-three years until his death served the College with great devotion and efficiency, bringing to it the great honor which came increasingly to him at home and abroad as a foremost man in his field of science. He was author of many books, incessant contributor to periodicals, an expert investigator, and an untiring worker in the application of science to the common welfare. A special work in which he was notably successful and with which his name is especially associated was that of mosquito extermination in the State of New Jersey by methods now adopted far beyond the State. He was member of numerous scientific societies; in 1910 he was president of the Entomological Society. He gave devoted, active and efficient service to the general life of Rutgers and to its student interests. He received the degree of D.Sc. from the College in 1891. He died at New Brunswick after a long illness March 12th, 1912.

The Faculty loses by resignation Professor Myron T. Scudder, A. M., who has been for four years Professor of the Science of Teaching. During the first three years of the period he was Head Master of the Preparatory School; during the last year he has been Principal of the Scudder Collegiate School in New York City. The interests of the School now in his charge demand his entire attention and compel his request for release from the professorship at Rutgers. Several Instructors and Assistants are also retired from the corps of instruction with the close of the College year: Erik Schjoth Palmer, Ph.B., Instructor in Mathematics; William Dana Hoyt, Ph.D., Instructor in Botany: James Claude Thomson, B.Sc., Assistant in Chemistry, and Ralph Heidingsfeld, B.Sc., Assistant in Ceramics.

The following appointments fully announced in the last statement became effective July 1st, 1911: Maurice Adin Blake, B.S., Associate Professor of Horticulture; Frederick Frelinghuysen Couch, M.E., Instructor in Mechancial Engineering; Edward Franklin Hauch, M.A., Instructor in Modern Languages; Floyd Earl Chidester, Ph.D., Instructor in Biology; Harry Reynolds Lewis, B.Sc., Instructor in Dairy Husbandry; Charles Hale, Assistant, later Instructor, in English; James Claude Thomson, B.Sc., Assistant in Chemistry, and Ralph Heidingsfeld, B.Sc., Assistant in Ceramics.

New appointments, to take effect July 1st, or not later than October 1st, 1912, are arranged as follows:

Melville Thurston Cook, Ph.D., Professor of Plant Pathology. Mr. Cook was graduated from Stanford University in 1894 with the degree of Bachelor of Arts, and received the degree of Master of Arts from DePauw University in 1901, and the degree of Doctor of Philosophy from Ohio State University in 1904. In 1894-5 he was Principal of the High School at Vandalia, Illinois. From 1895 to 1897 he was instructor in Biology and from 1897 to 1904 Professor of Biology at DePauw University. From 1904 to 1907 he was Plant Pathologist at the Experiment Station, Santiago, Cuba. Since 1907 he has been Plant Pathologist at the State Experiment Station of Delaware. He is a member of many scientific societies and a writer of many articles on subjects in his department.

Alexander James Inglis, Ph.D., Professor of the Science of Teaching. Dr. Inglis was graduated from Wesleyan University in 1902 with the degree of Bachelor of Arts and with honors. After a year's teaching at the Kisikminetas School, Pennsylvania, he became associated with the Horace Mann School, Columbia University, and taught there from 1903 to 1911, serving as Acting Principal during the last year. He pursued graduate study at Columbia University, and received the degree of A. M. in 1909, and of Ph.D. in 1911. During the year 1911-12, he has been Associate Principal of the Belmont School, California. He is the author of several text books, has had very successful experience in teaching and administration, and has shown great ability and promise in the studies appropriate to the professorship to which he is now called.

Thomas J. Headlee, Ph.D., Professor of Entomology. Dr. Headlee was graduated from the University of Indiana in 1903 with the degree of Bachelor of Arts and received the degree of Master of Arts from the same University in 1904. He received the degree of Doctor of Philosophy from Cornell University in 1906. He was Assistant Entomologist at the New Hampshire Experiment Station in 1906 and Associate in 1907. Since 1907 he has been Professor of Entomology and Zoology at the Kansas State College and Entomologist and Zoologist of the Kansas State Experiment Station. He is a constant contributor to the literature of his subject.

Earl Cook Stillwell, B.Sc., Instructor in Horticulture. Mr. Stillwell was graduated from Rutgers College in 1911. During the year 1911-12 he has been engaged in farm management.

John Putnam Helyar, M.S., Instructor in Botany. Mr. Helyar was graduated from the University of Vermont in 1909 with the degree of Bachelor of Science. Since 1909 he has been instructor in Botany at the University of Vermont and he received the degree of Master of Science from that University in 1912.

Harry Nelson Lendall, B.S., Instructor in Mathematics. Mr. Lendall was graduated from Tufts College in 1906. For more than three years he was engaged in practical engineering. Since 1909 he has been Instructor in Mathematics and Graphics at the University of Pennsylvania.

John Vail Bissett, B.Sc., Assistant in Chemistry. Mr. Bissett was graduated from Rutgers College in 1912.

George Howard Baldwin, B.Sc., Assistant in Ceramics. Mr. Baldwin was graduated from Rutgers College in 1911. During the year 1911-12 he held a Fellowship in Ceramics at the University of Illinois.

The following changes of title are announced:

Charles Huntington Whitman, Ph.D., Associate Professor, has been made Professor of English.

Edward Livingston Barbour, B.O., Instructor, has been made Professor of the Art of Public Speaking.

Fellowship assignments for the year 1912-13 are made as follows: a Vander Poel Fellowship in Science to George Edward Hageman, B.Sc., graduate of the Class of 1912; a Vander Poel Fellowship in Science to Edward Collier Scott, B.Sc., graduate of the Class of 1912. The first thesis under the terms of the John Oliver Herbert Memorial Fellowship in Political Science has been presented and printed by John DeLancy Ferguson, A.B., graduate of the Class of 1911, and holder of the Fellowship for the past year. The title of the thesis is "The Relations of the State to Religion in New York and New Jersey During the Colonial Period," and its publication is the beginning of what must become an increasing product of graduate study at Rutgers put forth in permanent form.

The plan with rules governing work for graduate degrees has been substantially revised by the trustees on the recommendation of the Faculty. A principle has been adopted and a standard set which seem appropriately exact and high. Although the revision is in the line of much comment and argument in the educational world favorable to a new and enduring dignity for the Master's degree, Rutgers is one of the first, perhaps almost the very first, to take this positive action. The committee's report which was adopted is as follows concerning this degree:

Two principles stand foremost; first, the Master's degree should be given a distinct and definite place among academic honors; secondly, this degree should be held in the esteem due a higher degree.

Those colleges and universities which grant it to graduate students only after at least one year's residence have thereby tried to restore it to honor; but they have failed to give it a distinct place, for it is usually merely a preliminary step towards the Doctor's degree, to be forgotten if that degree is won, or to be a consolation to those who fail. In short, the course of study, the method of study, and the aim of the student, all make it a Doctor's degree of an inferior type; and as such it is often a reproach to the student in later years if it remains his final higher degree. On the other hand, those universities and colleges which grant it in absentia or after the completion of courses in medicine, law, or divinity are either making it still less honorable or are making it a second degree for precisely the same work and both superfluous and meaningless. This is felt so generally today among able and right minded students that few are willing to seek the degree under these later conditions.

To the small college belongs especially, we believe, 'the task of rehabilitating this degree. Few small colleges are in a position to give adequate course and facilities of research to candidates for the Doctor's degree and it is often their duty to urge such students to go elsewhere; whereas, in the case of the Master's degree, provided this degree can be properly rehabilitated, the small college may be able to offer excellent opportunities to the student, to do so without great cost to the treasury of the College and to compete successfully with the larger universities.

Finally, it is the belief of your Committee that there are an increasing number of men and women graduating from our colleges who are not fitted or who do not wish to devote themselves to the longer and profounder study and original research required for the Doctor's degree, but who do desire to pursue further their college studies in some chosen direction and who might do so with great profit to themselves and to the community; especially is this true of those young men and women who intend to teach in the elementary and secondary schools and of those students who are about to enter our theological seminaries. Moreover, it is our belief that a few men in each year's graduating class at Rutgers belong to this group and should be encouraged to study at Rutgers for the higher degree. We have already three Fellowships for whose administration we are responsible and we should no doubt be glad to receive further endowments of this sort.

Hence it seems to us both fitting and progressive that Rutgers College should seek to solve for itself at least this rather puzzling academic problem.

We recommend: First, that the Master's degree be regarded by the Faculty of Rutgers College as a degree to be given after extended liberal study and not, as in the case of the Doctor's degree, after intense application to one subject and to original research;

Secondly, that the studies pursued by the candidate for this degree constitute a distinct course by themselves as they would if he were studying law or divinity;

Thirdly, that this course consist of three subjects, to be pursued by the student for two years in residence at the College; but equivalent graduate courses begun at other institutions may be substituted for the work of the first year;

Fourthly, that the character of such studies should not differ essentially from that of the elective courses now widely offered to seniors in our colleges, in other words, that their character should be elementary and liberal;

Fifthly, that no student graduating from Rutgers College after 1912 be granted the Master's degree on the basis of the present requirements.

The committee's report which was adopted is as follows concerning the Doctor's degree:

The trustees have not yet established a separate school for graduates, but several of the departments of the College are provided with facilities and with a teaching force adequate to the demands of a limited number of graduates who may desire to pursue courses of study and research leading to the degree of Doctor of Philosophy (Ph.D.)

For enrollment as a candidate for this degree, it is required that the applicant present a diploma of graduation from Rutgers College or from a college whose diploma shall have been accepted by the Faculty of Rutgers as entitling the applicant to such enrollment. The applicant must further satisfy the heads of the departments of French and German in Rutgers College that he has a reading knowledge of these languages. Enrollment is granted by a vote of the Faculty only when the application is accompanied by a statement from the head of the department in which the

applicant proposes to do his principal work, certifying the readiness of the department to receive him as a candidate for the degree of Doctor.

Students thus accepted as candidates will be recommended for the Doctor's degree on the fulfillment of the following requirements:

- I. While no determinate period will in any case be assigned for the attainment of the Doctor's degree, all candidates are required to spend at least three years in the pursuit of an accepted course of study. This work is to be done in residence at Rutgers, but equivalent graduate courses begun at other institutions may be substituted for all but the work of the final year.
- 2. The accepted course shall include a principal subject and either one or two secondary subjects. The principal subject must be of such a character as to engage the creative and constructive powers of the candidate.
- 3. The secondary subject or subjects must be chosen in a department other than that of the principal subject, but the head of the department in which the candidate takes his principal subject will advise in regard to the choice of the secondary work, which must have such relation to the principal subject as shall more or less immediately contribute to the value of the principal work.
- 4. An examination, which shall satisfy those having direction of the candidate's studies and the Faculty, that the candidate is fitted to receive the Doctor's degree.
- 5. A thesis upon some question connected with the principal subject, which shall be the result of the candidate's original investigation, and an actual contribution to knowledge. This thesis must be submitted to the head of the department in which the principal subject has been pursued, at least four months before the final examination.

Some changes in the under graduate curriculum have also been made creating larger opportunity and efficiency in the courses offered. The prevailing appropriateness and strength of the courses offered and of the instruction given in both cultural and technical lines are shown in no way perhaps more plainly than in the ready entrance of graduates upon post-graduate university

courses elsewhere, or into professional and administrative positions, and their notably successful work in both fields. A significant and important development in the College undertaking is the appointment of a Professor of the Science of Teaching, who, aided by the Professor of the History of Teaching, will give his entire time to the organizing and strengthening of this department. Not many Rutgers graduates, comparatively speaking, have gone into the teaching profession. Some have become very distinguished college and university professors and some have gone into positions of instruction or administration in secondary education, but there is not a wide representation in this field; other professions have made stronger appeal to the students and graduates of Rutgers; and the undergraduate courses have not largely or emphatically suggested preparation for the work. In the last few years when larger privilege in the department has been offered, there has been a distinct increase in the entrance upon education courses; in the coming senior class no less than seventeen men have elected such course. The demand for best possible advantages in this department and for the training of teachers appears, therefore, to the student body itself; it is argued also by the benefit to the College plainly attaching with a larger graduate body in educational work; and it is evident also in the field of usefulness most immediately open in the educational system of New Jersey. The school system of the State is being administered and promoted with view to constantly higher efficiency. There is no teachers' college in the State. Rutgers, in its special aspect as the State College of New Jersey seems to have a definite opportunity and responsibility for the serving of the State's needs by teacher-training, so far as its academic organization permits. It is therefore anticipated that the larger and more aggressive organization of the department of Education at the College will mean not only a growing service for Rutgers students, but as well an even more sympathetic and influential relation with the secondary education of the State than has ever before obtained.

In this connection the occasion for a Summer School at Rutgers and the definite probability of its establishing in 1913 must be mentioned. Its function may naturally be most of all a service

for teachers of the State, and its most immediately demanded department seems to be that of Agriculture. The teaching of agriculture in secondary schools, especially in rural high or grammar schools, is now emphatically urged; Federal and State legislation is likely to recognize and support such work. The Board of Education of the State of New Jersey is manifesting sympathy with it. Teachers for this line of instruction must receive special training for it; and the place for such training is at the State College, where, with the Experiment Station, the large and expert corps of agricultural investigators and instructors is organized. Some students looking toward such work may and will take the four years' Bachelor's Course at the College. A far larger number, no doubt, for many years at least, will seek the shorter period of special training for this special item in their varied school work. The Summer School, therefore, is the propriety, and indeed will be a necessity. It is to be earnestly hoped that the Legislature through the State Board of Education or through the College itself will provide the funds for the maintaining of such school at Rutgers from the summer of 1913. Naturally other work than agriculture should be maintained by the school and if the way be financially opened by legislative appropriation or otherwise, six weeks' courses in various subjects, the humanities and the sciences, will be offered, primarily perhaps for New Jersey teachers, but as well for all other qualified students.

The requirements for admission to the technical Bachelor of Science Courses by slight increase become for 1912 and 1913, fourteen points; in 1914 the credits required will become fifteen points, the standard already maintaining for entrance to the Arts, Letters and General Science Courses; from that time, therefore, all Freshmen will enter on equal terms and the Arts, Letters and Science Courses will all stand equally related to the secondary schools. Beginning with this year, 1912, also, no student will be admitted to the Freshman class with more than three conditions; heretofore a slightly greater deficiency has been occasionally allowed, confined, however, to three subjects. Of course a very small proportion of any class have entered or will enter with three points of deficiency; the far larger number have two or one, while a very substantial number of every class enter without any condition whatever. Any and every entrance condition must, by rule

already of some years standing, be removed before the student can pass into the Sophomore year. A still further regulation of academic appropriateness to be fully maintained the coming year and thereafter is that no certificate of studies passed will be received from a candidate who is not a graduate of his secondary school; if the non-graduate of a school is at all qualified to present himself for entrance and desires to do so, he must take the entrance examinations. Possibly this more exacting procedure as to conditions at entrance and as to certificates will make the incoming class slightly smaller than the last, but signs of decreased admissions are not now apparent.

The Freshman class admitted in September, 1912, numbered 138. The Senior class graduated in June, 1912, numbered 65, the largest class ever given degrees at Rutgers The full registry of students in the four classes for the year, candidates for degree, has been 375. With two Fellows, two special students, and students in the short courses in Agriculture, the total attendance is largely in excess of any past attendance.

A system of Freshman advisers has been established, the class being divided into groups of about ten each, each group assigned to a member of the Faculty. The intention is thus to maintain a close personal relation with each new student with view to advice concerning choice of electives, concerning college work in general, and as well concerning all personal life and welfare so far as the student will welcome such interest and co-operation. The entire student life has been prevailingly excellent; work has been well maintained and the so-called student activities, the literary and athletic activities, have had an unusually successful year. The mature judgment and fine spirit of the students in working out right procedure in all these things with the administration, the Faculty and Committees, are noteworthy, as is the sympathetic and wise service of the Faculty Committee in all this field.

Some items of Alumni relation to the College deserve formal acknowledgement. The cordial spirit widely manifest is a substantial support of the institution, and the activity of the Alumni Associations or Clubs here and there is a distinct promoting of the College welfare. The Graduates Committee has carried the interest on the loans secured by the College for the erection of the

Chemistry Building. Gifts to the Alumni Endowment Fund continue in amounts from \$1,000 down. The number of small annual gifts, \$10 and \$5 each, is very gratifying. During the past year a total of \$4,000 has been added to the Fund, increasing it from \$57,000 to \$61,000. The Alumni and Faculty Club on the Oueen's Campus is in its present scope well equipped and its maintenance has become financially successful largely through the constant and wise attention of the Secretary of the Club, George A. Osborn, B.Sc., of the Class of 1897. The collecting of Alumni pictures, class groups, for the walls of the Chapel Lecture Room has been continued with zeal and success by Professor Richard Morris, Class of 1800, of the Faculty Committee on Alumni Relations. The Classes of 1857, 1867, 1868, 1904 and 1912 have been added during the year. The list of groups now upon the walls is as follows: 1860, 1861, 1862, 1864, 1865, 1879, 1881, 1882, 1883, 1884, 1886, 1899, 1900, 1902, 1903, 1905, 1906, 1907, 1856, 1863, 1866, 1877, 1878, 1801, 1901, 1908, 1909, 1910, 1911, 1857, 1867, 1868, 1904, 1912. There is definite expectation of these: 1870, 1875, 1876, 1880, 1889, 1890, 1893, 1896, 1897 and 1898. Those still to be found and secured are 1858, 1859, 1869, 1871, 1872, 1873, 1874, 1885, 1887, 1888, 1892, 1894 and 1895. Two portraits for the Chapel collection have been presented by Alumni, one the portrait of a trustee, the other the portrait of a graduate and trustee, both men of great public distinction and of great devotion to the College, each portrait given by the son of its subject. Judge Garret D. W. Vroom, of the Class of 1862 and trustee, has given a portrait of his father, the Honorable Peter D. Vroom, Governor of New Jersey, 1833-1836, and trustee of Rutgers, 1828-1873. Frederick Frelinghuysen, Esq., of the Class of 1868, and trustee, has given a portrait of his father, the Honorable Frederick T. Frelinghuysen, Senator of the United States and Secretary of State, graduate of the Class of 1836 and trustee of Rutgers, 1851-1885. The interest of Alumni in discovering students for Rutgers and directing them to the College is worthy of mention, an activity that might well be more widely and more vigorously undertaken. A gratifying number of graduates' sons are in the present student body, and the coming year there will be an unusually large number of men to enter their father's Alma Mater. The enthusiasm manifest at the Alumni

## REPORT OF THE BOARD OF TRUSTEES.

Collation on Commencement Day was inspiring and encourages outlook and effort toward even larger gathering of graduates on that annual day. It may be that in connection with the gathering on the campus and at the collation, a larger attendance and larger activity can be secured for the formal Alumni meeting of the day. The custom of gifts by anniversary classes to the College was well sustained this year, somewhat in property advancements but especially in endowment donations. It is now tentatively decided that Commencement week shall be hereafter one week earlier than heretofore, that the Commencement Exercises be held in the morning instead of the evening, and that Commencement Day be Tuesday instead of Wednesday. Final decision will be had at the meeting of the Trustees in October.

The relation of the College to the State of New Jersey under the Federal and State legislation means a peculiar opportunity for academic usefulness and a surely constant growth in the lines of education peculiarly emphasized today: on the one hand the College increasingly feels the greatness and the dignity of the charge committed to it, and on the other hand, the State constantly advances to a clearer conception of its opportunity and a larger fulfilling of its responsibility in this field of the higher education. A common understanding and ready co-operation obtain between officers of the College and officers of the State. Some enactments of the Legislature at its session of 1912 have especially evidenced this. Communication between the College and the secondary schools of the State has become more familiar and can be made still more fruitful for the welfare of each. The joint committees from the Faculty of the College and the teachers of the schools for the preparation of State examination papers is an important item in this advance. At the State competitive examinations in 1011, and now again in 1012, about 200 candidates have appeared for either final or preliminary examinations; in 1911 the full 60 competitive scholarships allowed by the law were won and assigned; this year the full 60 will again be assigned. Beside the usual appropriations paid during the year past, an amount of \$10,000 appropriated by the Legislature of 1911 for the arranging, furnishing and equipping of the Entomology Building and of the Physics Laboratory, has been available. The appropriations made

at the session of 1912 included, beside the interest on the United States Land Grant Fund, \$5,800, and beside the regular items. some special amounts. The Scholarship item is \$2,520, balance for the last academic year, and \$30,000 for the coming year. The item for Department of Clay-Working and Ceramics remains as usual, \$5,000. The item for Short Courses in Agriculture is increased from \$16,500 to \$20,000. The special items are: for repairs and improvements on the Short Course Building, \$2,000; for grounds and roads at the College farm, \$3,000; for dairy buildings, \$12,000; for an Agricultural Building, \$100,000. The dairy - buildings provided for will mean a distinct advancement of dairy husbandry instruction in the agricultural course, and of dairy experiment work for the State. The great importance of the Agricultural Building to be erected at a cost of \$100,000 is apparent. It will be built at the farm, and will meet a need long and seriously felt. It will provide lecture rooms and laboratories for the several departments of instruction in agriculture, library room, assembly room large enough for the special farmers' gatherings, facilities for much of the Experiment Station work, and administration rooms worthy of the College, the Station and the State.

The property of the College has been substantially increased during the year. The residence at the College Farm erected by the late Professor Edward B. Voorhees has been purchased from Mrs. Voorhees for \$6,500 and rented to the present Director. The farm of Miss Emma W. Cook and Miss Anne B. Cook and the farm of Miss Mary C. Blew, a total of 132 acres, adjacent to the College Farm, have been bought at a total cost of \$22,100. Of this amount \$7,100 has been paid in cash and \$15,000 by mortgage. The larger area is necessary for the constantly larger work of instruction, experiment and production, and the addition is a very valuable asset to the College, making the entire area now about 275 acres. The dairy buildings will be erected on the addition. The fire which destroyed the College farm buildings July 11th, 1011, though occurring after the close of the last College year, was mentioned in the last annual statement. The loss was about \$24.000; the insurance received was \$22,100. A new barn of finer construction, of modern arrangement and in better location has been erected. The greatest special property item of the

year at the Campus has been the Entomology Building, a brick building owned for some years by the College, and now remodeled for the use of the Department of Entomology at a cost of \$2,000. and arranged, furnished and equipped at a cost of about \$4,600. It meets the purpose well, provides instruction and experiment laboratories and will house the very valuable entomological collections owned by the College. Another special item has been important work at the Ralph Voorhees Library, made possible by a gift of \$2,000 from Mrs. Ralph Voorhees. The work includes proper completing of vestibules, the decorating of interior walls, and more adequate facilities for library work. Other buildings on the Neilson Campus and on the Queen's Campus have received only usual repairs and betterments. An especially valuable addition to equipment has been an Oxy-Acetylene apparatus, valued at \$1,000, presented to the College for the use of the Chemistry and Engineering departments by the Linde Air-Products Company through the interest of the late Dr. S. O. Vander Poel, Class of 1873 and trustee.

The special work for the coming year will be the arranging, furnishing and equipping of the physics laboratory in Geological Hall, for which a balance of about \$5,400 remains available from State appropriation. The first floor of the hall will be entirely changed and made to share the departmental work now maintaining on the two floors aboeve. The Department of Geology will derive benefit also from the changes made. The third floor of Van Nest Hall will also be divided into three class rooms, for the better accommodation of the department of English.

The financial year of the College has been a very satisfactory one. There has not been large increase in endowment, and there has been no decrease in the debt incurred for recent property purchases and erection; there has been slight increase in such obligation. The increase in receipts appears in virtually every line of income. The largest addition to endowment is from the estate of the late Miss Susan Y. Lansing of Albany; her will provided \$5,000 for the College, and in addition, one-third of the residuary estate. The direct and the residuary bequests have been paid in, amounting in all to \$19,829.35. Further addition to general endowment has been through the Alumni Fund, \$4,000, including

\$1,000 from the Honorable G. D. B. Hasbrouck of the Class of 1880. Gifts for current purposes have included \$2,900 from donors of \$100 each to the Administration Fund; \$2,000 for Preparatory School deficiency, 1910-11, additional to the \$3,000 for that purpose reported a year ago, and including three gifts of \$5,000 each; two gifts of \$1,000 each, for Preparatory School deficiency, 1011-12; \$2,000 from Mrs. Ralph Voorhees for Ralph Voorhees Library. The Morrill Fund has provided \$50,000 instead of the \$45,000 of last year. The College Experiment Station has received the same amount as last year. The income from endowment has been \$34,574.00. The income from personal student payments additional to scholarship payments has been \$27,997.39. The total receipts have been \$288,187.44. While all obligations of the College have been met, virtually every obligation to the College has also been paid. This remarkable record for the year is prevailingly due to the great efficiency of the trasurer's office. The expense of administration in that office and in the registry office of necessity increases, but is more than justified by the excellence of the work, and the results.

The Library, through the Librarian, George A. Osborn, B.Sc., reports distinct advance in its property, working equipment and practical efficiency. The generous donation of Mrs. Ralph Voorhees gives the building much better appearance and adaptation. Additional shelving has been placed; a best type of filing cases has been installed; cabinets for historical collections and exhibits have also been provided. The number of books has been increased by 2,470, making a total of 66,001 now in the Library; the circulation has been 8,646. The largest single addition has been the Entomological Library of the late Professor John Bernhard Smith. Mrs. Smith has very generously made a gift to the College of Professor Smith's collection of Lepidoptera and Noctuidæ. It is an exceedingly valuable donation; it will bear his name; and, with th Hulst Collection, already owned, will emphasize and strengthen the position of Rutgers as a foremost institution in the richness of such collected treasure, in the facilities for investigation and demonstration in Entomology. The College now purchases Professor Smith's library, believing that it should not be dissipated, and that it should not be separated from the col-

lections, and that it will add substantially to the library values of Rutgers. The next largest single addition has been the law library of the late Mansfield L. Hillhouse, LL.B., First Director of the Hispanic Society, presented by his widow, Mrs. Isabel Hillhouse. The list of donors to the library is a long one, showing a wide interest in the College and in its library values on the part of Alumni and others. In certain departments and in certain groups of periodical literature the library is conspicuously strong. In other departments it urgently needs development. The funds available for purchases are not large; the amount should be increased by gifts to endowment and to income; and the donation of books themselves and periodicals is a great service at all times. The desire for historical material is again emphasized, the call for printings and manuscripts and photographs and relics in any way related to Rutgers. The material now possessed is by no means insignificant. It has been recently disposed in new specially made cabinets for satisfactory exhibit and is a frank call upon all interested to make any possible additions to the collection, now that they can be well placed and cared for. The management of the library is now distinctly more adequate than ever before and its service for the College and the community was never so efficient. The open hours have been again slightly increased, and now extend uninterruptedly from 8 A. M. to 10 P. M.

The Museum through Professor J. Volney Lewis, Director, reports in part as follows: While no great or very notable additions have been made to the collections during the year, donations of considerable value have been received from many friends. Worthy of special mention among these are Messrs. Harry R. Lee, Class of 1903; John H. Voorhees, Class of 1911; Alfred C. Hawkins, of Princeton University; John A. Manley, of New Brunswick; David Jenkins, Class of 1906; Prof, H. B. North, of the Department of Chemistry. As in former years, collections have been made in various parts of New Jersey by the Director, in connection with work for the Geological Survey of the State, including rocks, minerals, microscopic sections and photographs. These are all on deposit in the department and form a valuable source of material for students in the advanced elective courses. According to the records of attendance kept by the Assistant,

there have been about 1,800 visitors to the Museum per annum for the past several years; and since the opening in 1893, the total is about 31,800. In addition to these a considerable number of people avail themselves of the facilities of the department by correspondence concerning rocks, minerals, cements, ores and a variety of topics in the related natural sciences. The usefulness of the Museum in class instruction, which is perhaps its chief function, has been considerably increased during the year by the enlargement, revision, and relabeling of the collections of rocks and structural specimens.

Professor Jacob G. Lipman, Ph.D., has been appointed Director of the College Experiment Station to succeed the late Professor Edward B. Voorhees, D.Sc. This action coincided with the choice of Dr. Lipman as Director of the State Experiment Station, and in conformity with it and with his professorship in the agricultural department of the College, he has been made Director also of the College Farm and of the Short Courses in Agriculture. The work of the Experiment Stations is reported and published in full by the Director and his associates. It need only be said here that the work maintains with great vigor along old lines and along new lines from time to time undertaken. Some new experts and workers have been added to the staff. New and larger appropriations by the State have provided new activities and larger facilities at the Farm. The Farm itself is greatly improved by the changes following upon the fire of last summer and by special attention to the buildings and their immediate grounds. The Short Courses in Agriculture, under their Principal, Professor Kary C. Davis, Ph.D., have been attended by 128 students, an increase of nearly fifty over last year, which was the largest attendance up to that time. A new course in poultry husbandry was very successfully given. The present facilities have been scarcely sufficient for the number of students and the attendance quite surely will contine to increase. The slight increase in appropriation and the coming erection of the Agricultural Building will enable the College to adequately meet the situation.

Charter Day was observed November 10th, 1911, with address by the Honorable James Bryce, D.C.L., Ambassador from Great Britain to the United States. Usual College exercises were suspended and the celebration exercises were held in the Rebert F.

## REPORT OF THE BOARD OF TRUSTEES.

Ballantine Gymnasium in order to allow a largest possible audience, and the hall was filled, the College attending in a body. Mr. Bryce's address was on the Luther Laffin Kellogg Foundation: his subject was "The Reading of Books." An interesting incident in the program of the hour was the conferring of the degree of Bachelor of Arts in the presence of the Ambassador upon Francis Marmaduke Potter, who had just returned from England with that degree from Oxford University. Mr. Potter received the degree as of the Class of 1909, having been a member of that Class at Rutgers until he left at the end of Junior year to enter upon appointment as Rhodes Scholar from New Jersey. A further incident was the announcement that the so-called John Bogart Letters had come into the possession of the College. These are letters, forty-seven in all, bearing upon the earliest life of Queen's, now Rutgers College. John Bogart was an earliest graduate and then a tutor of Queen's Grammar School and Queen's College; after graduation he carried on correspondence with his College friends; and this bundle of letters passed down from him unnoted until received in the family of the Rev. Charles T. Anderson, a minister of the Reformed Church; their importance was at once realized, and their transfer to the College in time has been accomplished. A few are written by John Bogart himself; most are written to him by Simeon De Witt, Jeremiah Smith, James Schureman and other early students of Queen's. Interesting references to the Revolutionary War and other matters of the time abound. The references to the College circumstances, and the picture of the student life and friendship make the letters a valuable item in the College's historical collections. Their acquiring on Charter Day was peculiarly appropriate. In addition to the address of Mr. Bryce, two others were given during the year on the Kellogg Founda-tion, one by President Edwin A. Alderman, of the University of Virginia, on "The Problem of Democracy," the other by Professor Henry Van Dyke, of Princeton University, on "The Good Enchantment of Dickens." Other addresses made during the year before societies and clubs by others than members of the College have seen: before the Phi Beta Kappa Society, by President John Grier Hibben, of Princeton, Justice Francis J. Swavze, of the New lersey Supreme Court, and Professor Bergen Davis, of Columbia;

before the Historical Club by Edward Q. Keasbey, Esq., William H. Benedict, Esq., the Rev. James W. Marshall, D.D., the Rev. Clifford P. Case and Mr. Charles Deshler; before the Civil Engineering Club by John Bogart, D.Sc., William C. Ward, B.Sc., and Mr. Edward Wegmann; before the Chemical Club by Dr. H. S. Miner, Dr. W. A. Ducca and Prof. G. A. Hulett; before the Biological Club by Dr. C. S. Romer and Dr. Marshall A. Howe; before the Microscopical Society by Mr. A. Wayne Clark; before the Philoclean Society by Mr. S. M. Christie; before the Y. M. C. A. by Mr. J. S. Elliott; and before the Alliance Française by Monsieur Louis A. Loiseaux, Monsieur Claude Benedict, Monsieur Daniel Jordan, Dr. Louis Delamarre, Monsieur Henry Bargy and Professor Raphael D'Amour.

Preachers at the Sunday Chapel Service have included, beside ministers in the Faculty of the College and of the New Brunswick Seminary, the Rev. Henry E. Cobb, D.D., the Rev. John M. Vander Meulen, D. D., the Rev. William I. Chamberlain, D.D., the Rev. Francis Brown, D. D., LL.D., the Rev. Everett T. Tomlinson and the Rev. Alexander MacColl.

Commencement week was begun with the morning Chapel Sermon by Professor J. Frederic Berg, Ph.D., D.D., of the Class of 1802, and the Baccalaureate Sermon in the evening at the Second Reformed Church by the Rev. William P. Merrill, D. D., of the Class of 1887, Minister of the Brick Presbyterian Church, New York City. At Commencement sixty-five candidates received the Bachelor's degree and graduate degrees were conferred on ten candidates. Honorary degrees were conferred as follows: The degree of Master of Arts on Charles Deshler, sometime member of the Class of 1885; the degree of Doctor of Letters on Thomas Tileston Wells, Esq., and on Calvin Noves Kendall, Commissioner of Education of New Jersey; the degree of Doctor of Science on John Bogart, graduate of the Class of 1853; the degree of Doctor of Divinity on the Rev. William Rivers Taylor, graduate of the Class of 1876, and on the Rev. William Isaac Chamberlain, graduate of the Class of 1882; the degree of Doctor of Laws on the Rev. John Grier Hibben, President of Princeton University, and on the Hon. Mahlon Pitney, Justice of the Supreme Court of the United States.

### REPORT OF THE BOARD OF TRUSTEES.

During the year the President has represented Rutgers College on various occasions at other institutions. At the suggestion and through the continued generosity of the trustee, Mr. L. F. Loree, he has been able to continue the series of personal visits to other institutions. Last year those visited were the Carnegie Technical School at Pittsburgh, Purdue University, Valparaiso University, Cornell University, Cincinnati University and the Universities of Ohio, Illinois, Michigan, Wisconsin and Minnesota. This year those visited were Case School of Applied Science, Western Reserve University, Toronto University, McGill University, Bowdoin College, Brown University, Colgate University, Hamilton College and Rensselaer Polytechnic Institute. Addresses have been made on many and varied occasions.

In presenting this report I beg to append as part thereof a statement giving the College courses, the entrance requirements, and general information; also full registry of Visitors, Trustees, Faculty and Students for the college year 1911-12.

All of which is respectfully submitted,

W. H. S DEMAREST,

President.

## Examinations and Certificates.

Admission is either by examination or by certificate.

- 1. Entrance examinations for admission will be held at the College on Friday and Saturday, June 13 and 14, 1913.
- 2. The State competitive examinations will be held in each county on Friday and Saturday, June 6 and 7, 1913.
- 3. Students who have passed the examinations held under the authority of the Regents of the State of New York, or the examinations of the College Entrance Examination Board, are admitted on presentation of testimonials to that effect.
- 4. Students who, being graduates of a four years course, present certificates from certain schools approved by the Faculty of the College, are exempted from examination in the studies thus certified.

## II. REQUIREMENTS FOR ADMISSION.

The requirements for admission to the freshman class for 1913 are fully stated in the catalogue, which may be had on application. A brief statement in tabular form here follows, for the understanding of which it is necessary to remember that a "point" may be defined as a subject of the secondary school curriculum pursued throughout an academic year for four or five periods a week.

ing to the degree	For the Course lead ing to the degree of Bachelor of Letters.	For the General Science Course leadig to the de- gree of Backelor of Science or	For the Technical Courses in Civil, Electrical, and Mechanical Engineering, in Chemistry, Ceramics, Agriculture, and Biology, leading to the degree of Bachelor of Science.
Points.		Points.	
English, 3	English, 3	English, 3	English, 3
	Mathematics 3	Mathematics, 3	
	History, 2	History, 1—3	
		German and	German and
Greek, 3		French, 3—6	
	Latin, 4	Science 1—3	Science, 1—3
15	15		14

1. For admission to the A.B. and Litt.B. courses 15 points are required. For admission to the general B.Sc. course the requirements are as follows: 3 points in English, 3 points in Mathematics, and 9 points in other subjects, making a total of 15 points.

## REQUIREMENTS FOR ADMISSION.

For admission to the technical B.Sc. courses the requirements are as follows: 3 points in English, 4 points in Mathematics, and 7 points in other subjects, making a total of 14 points.

In 1914, for admission to the technical B.Sc. courses, 15 points will be required, the additional point to be offered in either language, science,

or history, as the candidate may prefer.

English.—In English the standard college entrance requirement of four years, equated as 3 points, is in force for admission to all courses.

MATHEMATICS.—In Mathematics, for the A.B. and Litt.B. courses, the requirement is Algebra through ratio and proportions, and progressions, and Plane Geometry, equated as 3 points.

For the general B.Sc. course the requirement is Algebra, as above, and

Plane Geometry, equated as 3 points.

For the technical B.Sc. courses the requirement is Algebra, as above, Plane and Solid Geometry, and Plane Trigonometry, equated as 4 points.

- LATIN.—In Latin, for the A.B. and Litt.B. courses, a standard four-year course is required, covering beginner's Latin, reading of texts equal in amount to four books of the Gallic War, six orations of Cicero, and six books of the Aeneid, grammar, and prose composition, the whole equated as 4 points. The texts prescribed for reading are Cicero's orations for the Manilian law and for Archias, and Virgil's Aeneid, Books I, II, and either IV. or VI. For a list of the works from which the remainder of the reading may be selected see Rutgers College Catalogue. The certificate requirement in prose composition is formulated as the equivalent of one period a week during the last two years of the school course.
- GREEK.—In Greek a standard three-year course is required for admission to the A.B. course, covering beginner's Greek, Xenophon, Homer, and

prose composition, equated as 3 points.

GERMAN AND FRENCH.—For the Litt.B. course three years of German or French (i. e. "Intermediate" German or French as defined by the Uniform Entrance Examination Board) are required, equated as 3 points.

For the general B.Sc. course (a) three years of German or French, or (b) four years, two of each language, or (c) five years, three of either language and two of the other, or (d) six years, three of each language, may be offered and will be equated accordingly.

For the technical B.Sc. courses (a) two years of German or French, (b) three years of German or French, (c) four years, two of each language, or (d) five years, three of either language and two of the other, may

be offered and will be equated accordingly.

For the B.Sc. courses, general and technical, two or three years of Latin will be allowed for the present as an equivalent for a corresponding amount of either German or French. Not more than three years nor less than two years will be accepted in any language.

Science.—In Science, for the B.Sc. courses, one year's experimental science is required, either Physics or Chemistry, equated as 1 point.

One year's Physics and one year's Chemistry may be offered and will be equated as 2 points.

A third science, i. e. a year's course in Botany, or Zoology, or Botany and Zoology, equated as 1 point, may be offered to make up the total

number of points required.

HISTORY.—In History, for the A.B. and Litt.B. courses, the requirement is Ancient History, together with either United States History and Civics, or Medieval and Modern History, or English History, the two courses being equated as 2 points.

For the B.Sc. courses, one course in History is required, to be chosen from those named above, and equated as 1 point, and two, or three, courses in

History may be offered and will be equated accordingly.

## III. COURSES OF STUDY.

The College offers courses leading to the degrees of A.B., Litt.B., and B.Sc. Under the last are included a general science course, and technical science courses in Civil Engineering, Electrical Engineering, Mechanical Engineering, Chemistry, Ceramics, Agriculture and Biology. The A. B., the Litt. B., and the general science courses permit large freedom in the choice of electives and provide liberal preparatory training for the professions of law, medicine, theology, teaching and journalism. The technical science courses are designed to prepare for industrial positions of leadership, except the course in Biology, which aims to give a liberal training in the sciences and is especially appropriate as a preliminary to the study of medicine. Short courses, not leading to a degree, are offered in Ceramics and in Agriculture. The following details may be noted:

 Students entering with the requirements of the course leading to the degree of Litt. B.may substitute beginner's Greek for the modern language of the freshman year, and will take regular freshman Greek in the sophomore year. In this case the degree of A.B. will be conferred on completion of the course.

 Students pursuing the general science course, in case more than half their elective work in the junior and senior years is chosen in language, history, political science, ethics, pedagogy, or philosophy, will

receive at graduation the degree of Litt.B.

3. Students entering with the requirements for the technical science courses may at the close of the freshman year be transferred to the general science course, pursuing history, physics, French, and drill with the general science students, and English with the technical science students, together with five elective hours as set forth on the next page.

4. Students in the general science course, who so desire, may at the close of the freshman year be transferred to the technical science course in

Agriculture or in Biology.

In the simplest form, the courses of study may be tabulated as follows:

#### FRESHMAN YEAR.

A. B. COURSE.	LITT.B. COURSE.	GENERAL B.SC. COURSE.	TECHNICAL B.SC. COURSES.
Hours.	Hours	. Hours.	Hours.
Mathematics,	Mathematics, German,	4 Mathematics,	General Chemistry Recitation, 1 Lectures, 2=1 Laboratory, 3=1
ing 4=2	ing, 4=2	Drill, 2=1	Drill, 2=1
18	11		18

### Courses of Study.

#### SOPHOMORE YEAR.

Laboratory, . 3=: French or	Physics, 2 Laboratory, 3=1	Physics, 2 Laboratory, . 3=1 French, 3	Laboratory, .3=1 French or
History,	History, 4	History, 4	English, 2
Physical Train-	Physical Train-	Elective, 6 Drafting, 2—1	
ing, 4 <u>—</u> 5	ing, 4 <u>=</u> 2		Drill,2 <u>=1</u>
18	18	18	18
		****	

#### JUNIOR YEAR.

#### First Term.

Ethics, Logic, English Bible, Elective,	3 Logic, 2 English Bible,.	3 Logic, 3 2 Military Sci- ence, 2 9 Elective, 9	History, 3  Military Science, 2  Technical, 12  Drill, 2=1
_	17 1	7 18	18
	Secon	d Term.	
Ethics, Psychology, Astronomy, Elective,	3 Psychology, 2 Astronomy,	3 Psychology,       3         2 Astronomy,       2         9 Elective,       9	History, 3 Military Science, 1 Technical, 13

### SENIOR YEAR.

18

18

17

17

#### First Term.

omy 3 International Law, 1 History of Art, 2—1	omy, 3 International Law, 1 History of Art, 2=1	Political Economy,	International Law or Ethics,
		tice,	
17	17	18	18

#### Second Term.

Constitutional	Constitutional	Constitutional	Constitution	al
	Law •			4
	History of Art,. 2=1			
Elective, 12	Elective, 12	Elective,	12 Technical,	13
		Drill, 2	=1 Drill,	2=1
17			1.8	1.8

Exercises in English composition and public speaking are required of all students throughout the four years, each being credited as the equivalent of 1 hour a week for each term.

## IV. ELECTIVES AND OPTIONS.

Before choosing their electives, students must consult the professors concerned, and at the beginning of the sophomore year

students in the technical science courses must consult also the head of the technical science course which they intend to pursue. There is a standing committee of the Faculty to which all elective choices are submitted for approval. All choices are subject to the requirements of the schedule, and will be allowed only when the previous preparation of the student qualifies him for the work chosen.

## V. SOPHOMORE ELECTIVES.

Students in the A.B. and Litt.B. courses may take in continuation of their freshman work, any two of the 3-hour sophomore courses in English, Latin, Greek, (A.B. course), German (Litt.B. course), and mathematics, but those who have taken beginner's Greek (Greek A) in the freshman year must continue with regular freshman Greek in the sophomore year.

Students in the general science course may take in continuation of their freshman work any two of the 3-hour sophomore courses in English, German, and mathematics, or they may choose science (5 hours) with those pursuing the course in Biology, together with Biological Laboratory (2 hours=1.)

Students transferred from the technical science courses to the general science course, will choose, in addition to the required subjects, five hours of work from the following.

1. Pure mathematics (4 hours) with those pursuing the engineering courses, together with drafting (2 hours=1).

2. Mathematics (3 hours) with those pursuing the courses in Chemistry and Ceramics, together with drafting (4 hours=2).

3. Science (5 hours) with those pursuing the course in Biology.

## JUNIOR AND SENIOR ELECTIVES.

At the beginning of the junior year students in the A.B., Litt.B., and general B.Sc. courses will choose three electives. At the beginning of the senior year two of these must be continued, but the third may be changed for any other senior elective, subject to the general rules.

## SOPHOMORE, JUNIOR AND SENIOR ELECTIVES.

The following electives are offered:

		Junion	Year.		Senior	Year.
Philosophy	3	hours	weekly.	4		weekly.
Pedagogy	3	"	46	4	66	66
History	3	66	"	4	66	"
Political Science	3	"	"	4	66	66
Latin	3	66	"	4	66	"
Greek	3	66	46	4	"	66
English	3	"	"	4	"	"
French	3	46	"	4	"	66
Italian	3	66	66	4	66	"
Spanish	3	66	46	4	66	66
_ A	3	66	66	1	66	"
German	3	"	66	1	66	66
Mathematics		66	"	4	66	66
Physics	3	66	66	4	"	66
Chemistry	3	66	66	4	"	66
Geology and Mineralogy	3	"	"	4	"	"
Zoology and Physiology	3			4		
Botany, Bacteriology, and Entomology	3	64	"	4	"	66
Astronomy				4	"	46
Ethics				4	66	66
Hebrew (extra)				2	"	"

## VII. MODERN LANGUAGE RULES AND OPTIONS.

Certain rules will govern the choice of French or German in the sophomore year.

- 1. Students in the technical B.Sc. courses who have offered no German for entrance will continue German from the freshman year.
- 2. Students in the technical B.Sc. courses who have offered German and no French for entrance will take French.
- 3. Students in the technical B.Sc. courses who have offered both German and French for entrance will choose, subject to approval, either French or German.
- 4. Students in the A.B. course will choose, subject to approval, either French or German.

## VIII. TECHNICAL SCIENCE COURSES.

The technical science courses begin to diverge with the sophomore year, the specialization increasing each year thereafter. The course, not the individual subject, is chosen, and transfers from one course

to another are allowed only by permission of the Faculty, and on condition that all omitted work is made up. The following is an outline of these courses beginning with the sophemore year:

## SOPHOMORE YEAR.

## First Term.

Hours.	ELECTRICAL ENGINEERING.	MECHANICAL ENGINEERING.
Physics,       2         Laboratory,       3=1         Calculus,       4         Descriptive Geometry.       3         Drafting,       4=2         Military Drill,       2=1	Military Drill, 2=1	English Literature. 2 French or German, 3 Physics,
18	Sanar J. Marron	18
	Second Term.	
French or German,       3         Physics,       2         Laboratory,       3=1         Calculus,       4         Surveying,       3	French or German,       3         Physics,       2         Laboratory,       5=2         Calculus.       4         Surveying,       2	American Literature, 2 French or German, 3 Physics, 2 Laboratory, 5=2 Calculus, 4 Mechanical Technology, 4=2
Drafting, 4 <u>=2</u> Military Drill, 2 <u>=1</u>	Machine Drawing, 4=2 Military Drill, 2=1	Machine Drawing, 4=2 Military Drill, 2=1
18	. 18	. 18
	Summer.	
Total Hours. Field Practice in Surveying, 100	Total Hours. Field Practice in Surveying, 100	Total Hours.  Machine Construction, 100
	JUNIOR YEAR.	
	First Term.	
Hours.	Hours.	Hours.
European History, 3 Military Regulations, 2 Mechanics, 5 Electrical Engineering, 3 Applied Geology, 1 Lectures, 2—1	## History 3 Military Regulations, 2 Mechanics, 5 Electrical Engineering, 3 Telephones and Telegraphs, 2 Electrical Laboratory, 5=2 Military Drill, 2=1	European History, 3
European History       3         Military Regulations,       5         Mechanics,       5         Electrical Engineering,       3         Applied Geology,       1         Lectures,       2=1         Lettering and       4=2         Topography,       4=2         Military Drill,       2=1	Hours.   Hours.   Graph   History   3   Military Regulations,   2   Military Regulations,   2   Electrical Engineering,   3   Telephones and Telegraphs,   2   Electrical Laboratory,   5 = 2   Military Drill,   2 = 1	European History, 3 Military Regulations, 2 Mechanics, 5 Electrical Engineering, 3 Kinematics, 4—2 Graphics of Machine Forces, 4—2 Military Drill, 2=1

## TECHNICAL SCIENCE COURSES.

## Summer.

CIVIL ENGINEERING, Total Hours.	ELECTRICAL ENGINEERI Total He		MECHANICAL ENGINEERING Total House	
Field Practice in	Engineering and Dy- namo Daborato-	ours.	Engineering and Dy- namo Laborato-	10.
Railroad Survey- ing, 100	namo Daborato- ries,	100	namo Laborato- ries,	00
			,	
	SENIOR YEAR.			
	First Term.			
Hours.		ae, n	Hous	rs.
Ethics, or International Law, 1 Political Economy, 3	Ethics, or International Law, Political Economy, Mechanics and	1	Ethics, or Interna-	1
Political Economy, 3	Political Economy,	3	Political Economy,	3
Strength of Mate-	Mechanics and Strength of Mate-		Mechanics and Strength of Mate-	
rials,	Strength of Materials,	. 4	rials,	2
Elements of Machin-	Advanced Alternat-			
ery,	Electrical Design,	2=1	Graphic Statics, 4= Kinematics, 4= Machine Design, 4=	=2
tary Engineering,. 4 Designs of Engineer-	Dynamo Laboratory,.	5 <u></u> 2	Engineering Labora-	=z
ing Structures, 4=2	Military Drill	21	tory, 3=	=1
besigns of Engineering Structures, 4=2 Military Drill, 2=1 Target Practice,	Target Practice,		Target Practice,	
18	****	18	•——	18
	Second Term.			
Comptituation - 1 Tons			Committeetian al Tarre	,
Constitutional Law. 4 Practical Astronomy, 4 Hydraulic Engineering,	Constitutional Law, Advanced Alternating Currents, Electric Power Transmission, Electric Railways, Electrical Design, Dynamo Laboratory,	4	Hydraulic Engineer-	4
Hydraulic Engineer-	ing Currents,	5	ing, Thermodynamics	2
Materials and Meth-	Transmission,	2	Mechanics and Ma-	2
tion,	Electrical Design,	2==1	Graphic Dynamics, 4=	=2
Geodetic Surveying, 2 Laboratory, 3=1	Dynamo Laboratory,	5=2	Machine Design, 6≡ Engineering Labora-	=3
Laboratory, 3=1 Designs of Engineer- ing Structures 4-2				=1
ing Structures, 4=2 Military Drill, 2=1 Graduation Thesis,	Military Drill,	2-1	Military Drill, 2=	=1
	Graduation Thesis,			
18		18		18
	SOPHOMORE YEA	R.,		
	First Term.			
CHEMISTRY.	Hours,		CERAMICS. Hour	210
English Literature,	2 English	Litera	ature,	2
rench or German, Physics,	3 French o	or Ge	rman,	2
Laboratory,	3=1 Labora	tory,	3=	=1
Qualitative Analysis,	2 Qualitativ	ve An	alysis,	2
English Literature, Prench or German, Physics, Laboratory, alculus, Qualitative Analysis, Laboratory, Military Drill,	0 = 4 Laboration Laboration 2 Military	tory, Drill.	10=	$=\frac{4}{-1}$
• , , , , , , , , , , , , , , , , , , ,	18			18
	10			10
	Second Term.			
American Literature, French or German, Physics, Laboratory, Calculus, Ualitative Analysis, Laboratory, Military Drill,	2 American	Lite	rature,	2
French or German,	3 French o	r Ge	rman,	3
Laboratory,	3=1 Laborat	tory,		=1
Qualitative Analysis,	3 Calculus, 2 Qualitativ	ve A	nalysis,	2
Laboratory,	10=4 Laborator	ry, .		=4
willing Dilling	Z=I mintary	D1111,		
	18			18

## First Term.

	1 0,00	10, 110,	
AGRICULTURE.  English Literature, French or German, Physics, Laboratory, Qualitative Analysis, Laboratory, Soils, Laboratory, Botany, Laboratory, Military Drill,	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Qualitative Analysis, Laboratory, 5 Zoology, Laboratory, 3 Botany, Laboratory, 3	8.  2 3 2 3 2 3 1 2 1 1 2 1 1 1 1 1 1 1 1
	Second	Term.	
American Literature, French or German, Physics, Laboratory, Qualitative Analysis, Laboratory, Plant Physiology, Laboratory, Agronomy, Military Drill,	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Qualitative Analysis, Laboratory, 5 Plant Physiology, Laboratory, 3 Zoology, Laboratory, 3	2 3 2 3 3 5 5 2 5 2 2 2 1 1 2 1 2 1 1 2 1 1 1 1 1
	Hours	Total Ho Field Practice in Surveying,	
JŪ		YEAR.	
		Term.	
Laboratory,	. 3=1	CERAMICS. European History, Military Regulations, Crystallography,	3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
	Second	T'erm.	
United States History,		United States History, Military Regulations, Mineralogy, Laboratory, Quantitative Analysis, Laboratory, Winning and Preparation of Clays. Ceramic Calculations, Ceramic Laboratory, 3	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$

## TECHNICAL SCIENCE COURSES.

## First Term.

Quantitative Analysis, Laboratory, Bacteriology, Laboratory, Services, Laboratory, Services, Ser	BIOLOGY  3 European History, 3  2 Military Regulations, 2  =3 Quantitative Analysis, 2  Laboratory, 8=3  1 Laboratory, 3=1  1 Vertebrate Anatomy and Em-  1 bryology, 3  1 Laboratory, 7=3  1  1	
	=1 Military Drill,	
Laboratory, 3= Plant Propogation, Laboratory, 3= Zoology, Laboratory, 3= Animal Husbandry, Laboratory, 3: Fertilizers and Manures,	United States History, 3 1 Military Regulations, 1 2 Entomology, 2 =1 Laboratory, 3=1 2 Vertebrate Anatomy and Em=1 bryology, 7=3 1 Laboratory, 7=3 1 Laboratory, 7=3 2 Hygiene, 2 2 Biochemical Laboratory, 5=2 =1 2 Military Driff, 2=1	
	OR YEAR.	
CHEMISTRY.  Ethics, or International Law, Political Economy, Geology, Physical Chemistry, Organic Chemistry, Recitation, Lectures, 2: Laboratory, 12:	CERAMICS   Hours	
	ond Term.	
Recitation,	4 Constitutional Law,	
Organic Industrial.	=1	

## First Term.

AGRICULTURE		BIOLOGY .	
Ethics, or International Law, Political Economy, Plant Pathology, Laboratory, Farm Management, Laboratory,  *Groups I, III, VIII(5) Laboratory,(10=4)  *Groups II, IV, V, VI(4) Laboratory,(13=5)  *Group VII(6) Laboratory,(8=3)	3=1 3=1 3=1	Recitation,	1 3 2=1 8=3 3=1 2 5=2
Military Drill,		Military Drill,	2=1
	20		20
S	lecond	Term.	
Constitutional Law,	10 2 <u>—</u> 1		2=1 8=3 3=1
Graduation Thesis, -		Laboratory, Military Drill, Graduation Thesis,	5 <u>=</u> 2 2 <u>=</u> 1

\*The chief agricultural studies of the Senior year are divided into groups, of which each student chooses one. These optional groups are: I. Pomology, Entomology, Plant Pathology; II. Poultry Husbandry, Dairying; III. Dairying, Animal Husbandry; IV. Agronomy, Soil Fertility, Farm Management; V. Entomology, Botany, Plant Pathology; VI. Soil Fertility, Botany, Bacteriology; VII. Soil Fertility, Geology, Bacteriology; VIII. Veterinary Science, Animal Husbandry.

## IX. STATE SCHOLARSHIPS IN THE SCIENTIFIC SCHOOL

For residents of the State of New Jersey scholarships open to candidates for the degrees of Bachelor of Arts, Bachelor of Letters, or Bachelor of Science are provided as follows:

State Scholarships, Act of March 31, 1890, as amended by Act of March 31, 1905.

These scholarships cover all the College fees, including the charges for tuition and public-room service and special fees, altogether \$130 to \$160, according to circumstances.

Appointment to these scholarships is determined as follows:

A competitive examination, under the direction of the City Superintendents and the County Superintendent of Schools in each county, is held in each county of the State on the first Friday in June and the Saturday following of each year (in 1913 on June 6 and 7).

The whole number of such scholarships to be awarded each year is equal to the whole number of members of Assembly for the State, as follows:

Atlantic	1	Gloucester 1	Ocean 1
Bergen	2	Hudson12	Passaile 5
Burlington	2	Hunterdon 1	Salem 1
Camden	3	Mercer 3	Somerset 1
Cape May	1	Middlesex 3	Sussex 1
Cumberland	2	Monmouth 3	Union 3
			Warren 1

Any candidate who passes the examination is entitled to an appointment provided there is a vacancy in any district.

Students who have passed the State competitive examinations can enter the

College without further examination.

2. State scholarships, Act of 1864.

These scholarships cover the charge of \$100 a year for tuition.

The scholarships under this Act are awarded, on the recommendation of the Superintendent of Schools in each county, to students who have passed the required examinations. There are, in all, forty such scholarships. Inquiries concerning vacancies for 1912 should be addressed to the Registrar.

## X. PRACTICAL SUGGESTIONS

Students should examine carefully the entrance requirements and shape their courses, particularly in the third and fourth years of the secondary school, so as to be able to furnish the points required for the courses they desire to enter.

It is well to take preliminary examinations at the end of the third year in all subjects already covered, especially in Algebra and

Plane Geometry, both because these subjects are more likely to be fresh in mind, and because it is unwise to leave too many examinations for the last year when the time is limited.

The scholarship examinations being competitive, appointments are made in the order of excellence; therefore, a passing grade of 60 per cent., though sufficient for admission to the College, will not necessarily assure a scholarship appointment.

Students not able to pass in all subjects at the time appointed by law, (June 6 and 7, 1913) may complete their records at the entrance examinations held at the College in June and September, but such deferred examinations are not reckoned in the competition.

## Degrees Conferred Commencement, 1912.

# HONORARY DEGREES. DOCTOR OF LAWS.

MAHLON PITNEY JOHN GRIER HIBBEN Morristown, N. J.
Princeton, N. J.
DOCTOR OF DIVINITY.

DOC WILLIAM ISAAC CHAMBERLAIN

New Brunswick, N. J. Rochester, N. Y.

WILLIAM RIVERS TAYLOR

CALVIN NOYES KENDALL
THOMAS THESTON WELLS

DOCTOR OF LETTERS.

Trenton, N. J.
New York, N. Y.

JOHN BOGART

DOCTOR OF SCIENCE.

New York, N. Y.

CHARLES DESHLER

New Brunswick, N. J.

## GRADUATE DEGREES.

MASTER OF ARTS.

DOCTOR OF PHILOSOPHY.
PERCY EDGAR BROWN '06

CIVIL ENGINEER.

SPFNCER CONE DEVAN '02

ALVIN BARTHOLDI FOX '08

ALFRED JOHN MAHNKEN '08

ELECTRICAL ENGINEER.
WILLIAM JAMES LANSLEY '88

MASTER OF ARTS.

MARCUS CORNELIUS THEOPHILUS
ANDREAE '09

LUMAN J. SHAFER '09
JOHN DELANCEY FERGUSON '11

MASTER OF SCIENCE. CLAYTON SIDNEY SMITH '09

### Honors Conferred.

### BACHELOR OF DIVINITY. ROYAL ARTHUR STOUT '07

## Degrees Conferred in Course.

#### BACHELOR OF ARTS.

HAROLD CURTICE AMOS WALTER SAX BLOOM ALAN DITCHFIELD CAMPBELL, JR. SEYMOUR PARKER GILBERT, JR. VALENTINE BRITTON HAVENS

WILLIAM GETT ER HERRMANN HENRY KILMER HOTALING JACOB PRESS VIVIAN CLINTON Ross ERNEST WELD SCUDDER WILLIAM RUDOLPH FUERCHTEGOTT STIER

## BACHELOR OF LETTERS.

JAMES K. ALVERSON PERRY HADWICK BASCOM . FRED ARTHUR BRIEGS FRED MONTGOMERY FOUNTAIN JACOB WALTER GROENDYKE

GEORGE WILLARD MARTIN JOHN DITTGEN MORRISON MILO CLAUDE MOSEMAN RICHARD ALEXANDER SMITH DENTER WHITE

LEROY COLVER WILSEY

#### BACHELOR OF SCIENCE.

JOHN ARTHUR GEORGE DAVID AUCHTER JOHN VAIL BISSETT EDWARD FRANCIS BLATZ WALTER COX BOWEN LEONARD STOTT BRIGGS HAROLD JASPER CADMUS ROBERT STEPHEN CLEAVER HENRY CLIFTON COOPER Elbron Fisher HENRY VICTOR JACOBSON ORAN KELLER RALPH JACOB KIEFFER ALSON CARLTON LLEWLLYN JOHN FRANCIS McGOVERN, JR. JOHN PRESTON MAILLER JAMES WALTER MAILLER JOHN OSBORN MARSH WILLIAM HERBERT MARTIN LOUIS FOWLER MERRILL ALFRED ARTHUR NELSON

FRANCIS CLYDE FITTING SAMUEL FURMAN FOSTER RUSSELL WOODWORTH GIES AUGUSTUS LEMUEL GLADDING FREDERIC GLANDER AARON MARTIN HAGEMAN GEORGE EDWARD HAGEMANN ALBERT LEWIS HAGEN FDWIN HOWE HALSTED HERBERT WILLIAM HEILMANN JOHN RICHARD NEVIUS HERBERT RAMSEY PEEBLES DONALD ROSS ROBERT SCHMIDT EDWARD COLLIER SCOTT STEPHEN PARSONS SMITH WILLIAM EMMONS SMOCK HAROLD MORLOCK TERRILL ARTHUR BENTLEY TITSWORTH EARL EDWARD VAN DERWERKER ELMER LEIGH WALKER

FREDERICK WOELFLE

## Honors Conferred Commencement, 1912.

GRADUATION HONORS. HIGHEST HONORS.

SEYMOUR PARKER GILBERT, JR.

#### HIGH HONORS.

WALTER SAX BLOOM ALAN DITCHFIELD CAMPBELL, JR. GEORGE EDWARD HAGEMANN HERBERT WILLIAM HEILMANN RALPH JACOB KIEFFER VIVIAN CLINTON ROSS

#### HONORS.

HAROLD CURTICE AMOS
LEONARD STOTT BRIGGS
RUSSELL WOODWORTH GIES
VALENTINE BRITTON HAVENS
WILLIAM GETTIER HERRMAN
HENRY VICTOR JACOBSON
JOHN OSBORN MARSH
GEORGE WILLARD MARTIN

I OUIS FOWLER MERRILL
HERBERT RAMSEY PEEBLES
ROBERT SCHMIDT
WILLIAM RUDOLPH FUERCHTEGOTT
STIER
FARL EDWARD VAN DERWERKER
FLMER LEIGH WALKER

LEROY COLVER WILSEY
FREDERICK WOELFLE

#### SPECIAL HONORS.

In	Spanish	HAROLD CURTICE AMOS
In	Greek	WALTER SAX BLOOM
In	Ceramics	LEONARD STOTT BRIGGS
In	Political Science	SEYMOUR PARKER GILBERT, JR.
In	Latin	SEYMOUR PARKER GILBERT, JR.
In	Philosophy	SEYMOUR PARKER GILBERT, JR.
In	Mechanical Engineering	George Edward Hagemann
	Electrical Engineering	

#### COMMENCEMENT SPEAKERS.

HAROLD CURTICE AMOS
ALAN DITCHFIELD CAMPBELL, JR.

SEYMOUR PARKER GILBERT, JR. GEORGE EDWARD HAGEMANN

VALENTINE BRITTON HAVENS

#### MILITARY DISTINCTION.

The "Best Soldier," whose name is engraved on a bronze tablet in the Ballantine Gymnasium:

Cadet Major Alfred Arthur Nelson.

The following cadets were reported to the Adjutant General, United States Army, and to the Adjutant Generals of their respective States as having shown special aptitude for military service:

Cadet Major Alfred Arthur Nelson

Cadet Captain and Adjutant EARL EDWARD VAN DERWERKER

Cadet Captain RICHARD ALEXANDER SMITH

Cadet Captain Walter Cox Bowen

Cadet Captain John Dittgen Morrison

Cadet Captain Arthur Bentley Titsworth

Cadet First Lieutenant George WILLARD MARTIN

Cadet First Lieutenant JOHN ARTHUR

## HONORS IN PHYSICAL DEPARTMENT.

LEONARD STOTT BRIGGS

VALENTINE BRITTON HAVENS

ALFRED ARTHUR NELSON

## UNDERGRADUATE HONORS.

### PHI BETA KAPPA.

CLASS OF 1912.

HAROLD CURTICE AMOS WALTER SAX BLOOM LEONARD STOTT BRIGGS

SEYMOUR PARKER GILBERT, JR. GEORGE EDWARD HAGEMANN VALENTINE BRITTON HAVENS ALAN DITCHFIELD CAMPBELL, JR. HERBERT WILLIAM HEILMANN RALPH JACOB KIEFFER

#### FELLOWSHIP APPOINTMENTS.

VANDER POEL FELLOWSHIP IN CHEMISTRY.

AARON MARTIN HAGEMAN

VANDER POEL FELLOWSHIP IN CHEMISTRY. EDWARD COLLIER SCOTT

## Undergraduate Honors.

#### JUNIOR ORATORS.

CLASS OF 1913.

JACOB CHOR-RICHER DONALD HAVENS
THOMAS VASSAR MORTON JOHN HENRY STOWITTS PUTNAM

GEORGE STANLEY ROBINS HAROLD WILLIAM SCHENCK HOMER LEWIS SHEFFER EARL REED SILVERS

#### SOPHOMORE ORATORS.

Class of 1914.

LEVI SIMMONS ERNST JOHN EDWARD ELMENDORF, JR. DuBois N. LeFevre CARL RAYMOND WOODWARD

JAMES ANDERSON MASON OREN FOGLE BROWNING, JR. LABAN HAMILL CHAMBERLIN JAMES MORROW

#### HONOR MEN.

CLASS OF 1914.

A=A.B. Course. L=Litt.B. Course. Kingsland Camp Franklin Oscar Church Roscoe Seymour Conkling
Lindley Gueren Cook
Robert Garton Dooling
John Edward Elmendorf, Jr.
Levi Simmons Ernst Charles Henry Gant Donald Henry Gesse

G=General B.Sc. Course. S=Technical B.Sc. Course

A Newark Academy .Kingston Academy Utica Free Academy

Madison High School Clayton High School Rutgers Preparatory School Catskill High School  $\mathbf{S}$ A

A S Asbury Park High School
S Olean High School

Samuel Isaac Hoddeson	S	New Brunswick High School
Howard Frederick Huber	S	Woodbridge High School
William Terriberry Hulsizer	S	Clinton High School
Eric Waldorf Luster	S	Battin High School
Bryce Inglis MacDonald	S	Bound Brook High School
George Rockwell Maxson	S	Atlantic Highlands High School
Arthur Costello Metcalf	S	Passaic High School
James Morrow	A	Vineland High School
Edward Thurber Paxton	S	Freehold High School
Lloyd Frank Regendahl	S	Kingston Academy
David Bevier Van Dyck	A	Greeneville Free Academy
Elmer Harnden Van Wagenen	S	Bordentown Military Institute
Louis Kossuth Wilkins	S	Woodbury High School
Carl Raymond Woodward	G	Freehold High School

#### CLASS OF 1915.

Harry Newton Blue	$\mathbf{S}$	Erasmus Hall High School
William Henry Campbell, Jr.	A	Ocean City High School
Charles Lee Crandall	S	Schuylerville High School
Elmore Johnson DeWitt	S	Steelton High School
Spencer Dawson Embree	S	Westfield High School
Russell Fleming	G	New Brunswick High School
Lawrence Growden Gillam	G	Mount Holly High School
John Calvin Green, Jr.	$\mathbf{L}$	Hackettstown High School
Louis Norman Grier	S	Woodbury High School
Harold Thatcher Hoot	S	Newark High School
Ralph Moore Hubbard	S	Ridgewood High School
Lloyd North Lewis	$\mathbf{S}$	Roselle Park High School
Robert Elwood Moore	A	Newark High School
George Dusenbery Norcom	S	Ocean City High School
Stanley Underwood North	S	Atlantic City High School
Bernard Pear	S	New Brunswick .High School
William Solomon Porte	S	Reading Academy
Israel Reiner	S	Millville High School
Roy Mundy Davidson Richardson	A	Bound Brook High School
Franklin Morrow Ritchie	A	Erasmus Hall High School
Leo Rogin	S	New Brunswick High School
Frederic Kull Shield, Jr.	A	Chattle High School
Samuel Silbert	G	Plainfield High School
Laird Sumner Van Dyck	A	Newark High School
Selman Abraham Waksman	S	Odessa Gymnasium
Allen George Waller	$\tilde{\mathbf{s}}$	Freehold High School

## Prizes Awarded, 1911-1912.

#### SENIOR PRIZES.

James Suydam Prize in English Composition

James Suydam Prize in Natural Science Russell Woodworth Gies

Jacob Brodhead Classical Prize Walter Sax Bloom

Edward A. Bowser Prize for Engineering & Walter Cox Bowen

#### RUTGERS CADET CORPS.

Mrs. Ann Van Nest Bussing | First Valentine Britton Havens | Second George Edward Hagemann | First Valentine Britton Havens | First Valentine Britton Havens | Second George Edward Hagemann | Seymour Parker Gilbert, Jr. | Seymour Parker Gilb

#### SENIOR AND JUNIOR PRIZES.

Joseph P. Bradley Prize in Roman Law Seymour Parker Gilbert, Jr. Rev. William H. Van Doren Prize for Bessay on Missions

Luther Laflin Memorial Prizes First Seymour Parker Gilbert, Jr. Second Homer Lewis Sheffer

#### JUNIOR PRIZES.

Irving S. Upson Junior Orator Prizes First George Stanley Robins Second John H. S. Putnam

#### SOPHOMORE PRIZES.

Myron W. Smith Memorial First Levi Simmons Ernst
Prizes in Oratory Second John Edward Elmendorf, Jr.
Peter Spader Prizes in Modern First Levi Simmons Ernst
History Second James Morrow

#### FRESHMAN PRIZES.

Tunis Quick Prize in English Grammar and Spelling Samuel Sloan Prizes for First Scholarship Second Edward L. Barbour Prizes in First Declamation Second Harvey Ira Todd

#### GENERAL PRIZES.

Louisa and Samuel Van Vechten Prize for Essay on Missions
Alliance Française Prize in French
John P. Wall Targum Prizes

Second William Rudolph F. Stier
Edward Thurber Paxton

## Rutgers College Cadet Corps, 1912-1913.

COMMANDANT.

First Lieutenant A. E. Ahrends, U. S. Infantry

FIELD AND STAFF.

### NON-COMMISSIONED STAFF.

Cadet Sergeant Major, J. S. Elliott Cadet Quartermaster Sergeant, J. A. Stackhouse

#### CADET CAPTAINS.

Company A—W. C. Ball, Jr. Company C—J. P. Hickman, Jr. Company B—G. S. Robins Company D—C. E. Dennis

#### CADET FIRST LIEUTENANTS.

Company A—C. F. Schenck Company B—T. Van Winkle

Company C—H. L. Van Mater Company D—R. D. Howell

## CADET SECOND LIEUTENANTS.

Company A—H. F. Smith
Company B—J. B. Leslie

Company C—E. S. Grymes
Company D—R. E. Cooper

## ADDITIONAL CADET SECOND LIEUTENANTS.

Company A-P. Walrath Company B-J K. Folsom

#### CADET FIRST SERGEANTS.

Company A—S. M. Firth
Company B—H. K. Davies

Company C—E. H. Van Wagenen
Company D—R. G. Dooling

## CADET SERGEANTS.

Company A—C R. Woodward
H. Solomon
W. W. Summerill
G. R. Maxson
Company B—R. S. Conkling
J. A. Ward
E. W. Luster
R. P. Lukens
Company C—R. B. Anderson
F. L. Walton
W. T. Hulsizer
W. H. McCallum
Company D—F. O. Church
G. W. Schmidt
A. H. Baumann
J. Powers

#### CADET CORPORALS.

Company A—C. R. Martin
A. C. Busch
W D. Anner
H. V. Cory
A. R. Jacobson
H. B. Jackson
Company B—J. C. Conger
H. E. Watt
W. E. Schwanhausser
S. N. North
A. M. Schultz

Company C—W. H. Brandow
H. N. Blue
F. DeP. Hasbrouck
W. B. Malmar
H. J. Levine
W. S. Porte
Company D—W. S. Porte
Company D—W. D. Twing
G. D. Norcom
C. H. Engelhard
F. C. Brush
G. J. Smith
G. J. Smith
J. P. Noble

## REGISTER OF STUDENTS.

## COLOR GUARD.

Cadet Color Sergeant, F. N. Van Deripe, H. D. McKinney

## FIELD MUSIC.

Cadet Drum Major, H. A. Julie Cadet Chief Musician, F. E. Weis Cadet Principal Musician, L. J. Leonard

## Register of Students.

#### GRADUATE STUDENTS.

Hageman, Aaro	n Martin	Bound Brook	27	Hertzog	Hall
	Rutgers College, 1912				
,	Vander Poel Fello	w in Chemistry			
Scott, Edward	Collier	Oswego, N. Y.	114	College	Ave.
B.Sc., I	Rutgers College, 1912 .				•
,	Vander Poel Fello	w in Chemistry			

#### SENIOR CLASS.

## CLASS OF 1913.

A=A.B. Course.		G=General B.Sc. (	Course.
L=Litt.B. Course.		S=Technical B.Sc	e. Course.
Ball, William Carol, Jr.	S	Rutherford	114 College Ave.
Barr, Thomas Turner, Jr.	G	Metuchen	52 College Ave.
Bastedo, Walter	A	Dayton	Dayton
Bauer, Walter Charles	S	Elizabeth	542 George St.
Bell, Whitfield Jenks	S	Hoboken	78 College Ave.
Bergamini, Herbert Muhlenberg	G	Brooklyn, N. Y.	52 College Ave.
Bergen, Arthur DeLong	S	Bound Brook	542 George St.
Chase, Edward Dudley	S	Rahway	77 Hamilton St.
Chob-Richer, Jacob	A	Newark	Newark
Connors, Charles Henry	S	Highland Park	Highland Park
Conover, Frank Hayward	S	Matawan	122 Hamilton St.
Cook, Lester Emery	S	Newark	137 Winants Hall
Cooper, Ralph Emerson	G	Newark	95 College Ave.
Cozzens, Henry Anthony, Jr.	S	Newark	17 Mine St.
Davis, Louis Morris	S	$Bound\ Brook$	Bound Brook
Dennis, Clifford Ezekiel	G	Hamburg	95 College Ave.
Enk, John Clyde	A	Somerville	81 Winants Hall
Field, Frank Edwin	S	Somerville	81 Winants Hall
Flanagin, Francis Walter	G	New Brunswick	Highland Park
Folsom, Joseph Kirk	S	Newark	17 Mine St.
Grymes, Elmer Smith	S	New Brunswick	210 Handy St.
Haasis, Cuthbert Wead	S	Rahway	Rahwa <b>y</b>
Haasis, Paul Wead	S	Rahway	Rahway
Hambrock, Charles	S	Newark	140 Winants Hall
Havens, Donald Leston	L	New Brunswick	Bleecker Place

Hegstrem, Carl Frederick Nichola	s S	Perth Amboy	108 Winants Hall
Hickman, John Parker, Jr.	S	Asbury Park	18 College Ave.
Hornbruch, Walter	S	Elizabeth	12 Winants Hall
Howell, Raymond Ditmars	G	New Brunswick	255 Suydam St.
Johnson, Frederick James	$\ddot{\mathbf{s}}$	Point Pleasant	17 Mine St.
Julie, Howard Anthony	S	Brooklyn, N. Y.	18 College Ave.
Leistner, August	S	Elizabeth	Elizabeth
Leistifer, August	S		
Lennox, Weston		Vincentown	55 Winants Hall
Leonard, Lambert Jenkins	S	Highland, N. Y.	39 Hertzog Hall
Leslie, Jesse Burgess	S	Newark	Bleecker Place
McKinney, Howard Decker	G	Pine Bush, N. Y.	Bleecker Place
Masker, Claremont Whitmee	S	Somerville	81 Winants Hall
Merrill, George Raymond	S	Washington	122 Hamilton St.
Miller, Charles	S	Some rville	12 Hertzog Hall
Milliken, Mahlon George	S	Bloom field	78 College Ave.
Mitchell, Oliver Fritts	S	Pittstown	70 Winants Hall
Morton, Thomas Vassar	G	Newark	• 17 Mine St.
Nelson, Thurlow Christian	S	New Brunswick	Highland Park
Newmark, Herman Albert	Ğ	Newark	Newark
Obecny, Joseph S.	š	Brooklyn, N. Y.	17 Winants Hall
Opdycke, Lawrence Hall	š	West New York	77 Hamilton St.
Putnam, John Henry Stowits	Ă.		Y Bleecker Place
			52 College Ave.
Ramsey, George Herbert	A S	Olean, N.Y.	
Robins, George Stanley		Plainfield	Bleecker Place
Robinson, George Raymond	S	Moorestown	122 Hamilton St.
Ross, Miles	A		100 Livingston Ave.
Rundall, Olin Rutledge	S	Amenia, N. Y.	17 Winants Hall
Schechter, Morris	S	Newark	Newark
Schenck, Cornelius Frelinghuysen	S	Plainfield	Bleecker Place
Schenck, Harold William	Α	Plainfield	29 Hertzog Hall
Sharkey, Samuel Miller	S	Trenton	52 College Ave.
Sheffer, Homer Lewis	A	Linlithgo, N. Y.	30 Hertzog Hall
Silvers, Earl Reed	A	Rahway	77 Hamilton St.
Slater, James Rodenburg	G	Cairo, N. Y.	124 Winants Hall
Smith,, Edward Tiel	G	Magnolia	95 College Ave.
Smith, Hilmar Frederick	S	New Brunswick	157 College Ave.
Smith, Thomas Darmon	$\widetilde{\mathbf{S}}$	Milford	336 George St.
Stover, Charles Coane	$\tilde{\mathrm{G}}$	Trenton	Bleecker Place
Titus, Charles Augustus	G	New Brunswick	178 Townsend St.
	S	New Brunswick	145 Somerset St.
Van Deripe, Frederick Neefus			Highland Park
Van Mater, Henry Lear	S	New Brunswick	52 College Ave.
Van Winkle, Theodore	S	Rutherford	
Walrath, Paul	S	Newark	Bleecker Place
Weis. Francis Elmer	G	Trenton	122 Hamilton St.

## JUNIOR CLASS.

## CLASS OF 1914.

A=A.B. Course. L=Litt.B. Course.			B.Sc. Course. B.Sc. Course
Allen, Harry Milton	S	Sergeantsville	542 George St.
Anderson, Roy Bennett	S	Brooklyn	77 Hamilton St.
Baumann, Adolph Hora	S	Rahway	18 College Ave.
Bechtel, George Milne	S	Trenton	95 College Ave.
Beckwith, Charles Stewart	S	Olean, N. Y.	55 Winants Hall
Blanchard, Frank DeWitt	A	Paterson	43 Hertzog Hall

#### REGISTER OF STUDENTS.

Bouton, Robert Ogden	G	Elizabeth
Brill, Edward Hopkins	ŝ	Poughquag, N. Y.
Browning, Oren Fogse, Jr.	Ľ	Perth Amboy
Buechner, Casper	Š	Woodhaven, N. Y.
	Ä	Newark
Camp, Kingsland	A	
Chamberlin, Laban Hammill		New Brunswick
Church, Franklin Oscar	S	High Falls, N. Y.
Conklin, Theodore Hill	A	Kingston, N. Y. Utica, N. Y.
Conkling, Roscoe Seymour	S	
Cook, Lindley Gueren	S	Madison
Cooper, Samuel Charles	S	Elizabeth
Crane, Edward Jameson	S	South Amboy
Davies, Henry Kattenhorn	S	Brooklyn, N. Y.
de la Torre, Austin Lino	S	Guadalajara, Mex.
Dickerson Rawson Parkhurst	S	Newark
Dooling, Robert Garton	S	Clayton
Elliott, John Sanderson	S	Catskill, N. Y.
Elmendorf, John Edward, Jr.	$\widetilde{\widetilde{\mathbf{A}}}$	New Brunswick
Ernst, Levi Simmons	Ā	Catskill, N. Y
Finger John Thomas	s	
Finegan, John Thomas	S	Iselin
Firth, Stuart Mortimer		South Orange
Gaipa, Alfred August	A	Jersey City
Gant, Charles Henry	S	Bradley Beach
Gesse, Donald Henry	S	Olean, N. Y.
Hallenbeck, Charles Arlington	- A	Greenville, N. Y.
Hoddeson, Samuel Isaac	S	New Brunswick
Huber, Howard Frederick	S	Woodbridge
Hulsizer, William Terriberry	S	Clinton
Laity, Warren Randolph	G	Chappaqua, N. Y.
Leeds, Albert George	A	Brooklyn, N. Y .
LeFevre, Dubois N.	A	New Paltz, N. Y.
LeFevre, Dubois N. Lowery, John, Jr.	S	Liberty Corner
Lukens Reginald Pennington	S S S S	Rahway
Lukens, Reginald Pennington Luster, Eric Waldorf	S	Elizabeth
MacDonald Bryge Inglis	S	Belle Mead
MacDonald, Bryce Inglis McCallum, William Henry	$\tilde{ ext{S}}$	
Maxson, George Rockwell	$\tilde{\mathbf{s}}$	Rahway
Maxson, George Rockwen	Ğ	Locust
Menagh, Louis Randolph, Jr.	L	Jersey City
Mershon, Arthur Hartland	Ğ	Rahway
Metcalf, Arthur Costello	A	Passaic
Morrow, James		Vineland
Paxton, Edward Thurber	S	Freehold
Powers, Jerome	S	Elizabeth
Prentiss, Arthur Arnold	Ğ	New Brunswick
Prentiss, Paul Dudley	A	New Brunswick
Purrington, Thomas Upton	S	Trenton
Regendahl, Lloyd Frank	S	Kingston, N. Y.
Rowland, John Henry	. S	New Brunswick 20
Schmid, Edward Robert	S	Verona
Schmidt, George William	S	Arlington
Simon, Herbert	S S S	Newark
Solomon, Harold	Š	
Stackhouse, James Archer	S	New Brunswick
Summovill William Wahhan		Bridgeton
Thombren The down Market	S	Penns Grove
Summerill, William Webber Thorburn, Theodorus McLeod Van Dyck, David Bevier	A	Clifton
van Dyck, David Bevier	A	Greenville, N. Y.
Van Wagenen, Elmer Harnden	S	Brooklyn, N. Y.

95 College Ave. Bleecker Place 77 Hamilton St. 137 Winants Hall Newark 267 Handy St. Bleecker Place 52 College Ave. 78 College Ave. Madison Elizabeth 124 Winants Hall 18 College Ave. Bleecker Place Bleecker Place 77 Hamilton St. 18 College Ave. 15 Union St. 58 Winants Hall Iselin 114 College Ave. 122 Hamilton St. 17 Mine St. 52 College Ave. 30 Hertzog Hall 233 Burnet St. Woodbridge 70 Winants Hall 105 Winants Hall Bleecker Place 41 Hertzog Hall 542 George St. 17 Mine St. 95 College Ave. 23 Winants Hall 122 Hamilton St. 102 Winants Hall 95 Bayard St. Rahway 26 Winants Hall 99 Winants Hall 102 Winants Hall Elizabeth Highland Park Highland Park 18 College Ave. 78 College Ave. 06 Commercial Ave. 58 Winants Hall 17 Mine St. Newark 189 New St. 122 Hamilton St. 542 George St. 102 Winants Hall Bleecker Place 31 Winants Hall

Walton, Frank Large	S	Springfield	18 College, Ave.
Ward, Joseph Augustus	হ	Lakewood	26 Winants Hall
Wilkins, Louis Kossuth	S	Thorofare	94 Guilden St.
Williams, Stanley Neale	S	Westfield	70 Winants Hall
Woodward, Carl Raymond	G	Englishtown	542 George St.
Zeglio, Leon Peter	S	Plainfield	23 Winants Hall

## SOPHOMORE CLASS.

CLASS OF 1915.

A = A.B.	(	ourse.
L=Litt.	В.	Course.

G=General B.Sc. Course. S=Technical B.Sc. Course.

Anner, Walter	S	Phillipsburg .	542 George St.
Ashman, Richard	A	Hunt'gton, N. Y.	105 Winants Hall
Blue, Harry Newton		New Brunswick	19 Morris St.
Brandow, William Henry	Š	Albany, N. Y.	114 College Ave.
Brush, Frederick Clinton	S S S	Westfield	114 College Ave.
Bulmer, James Wesley	$\tilde{ ext{G}}$	Cairo, N. Y.	11 Hardenbergh St.
Busch, Arthur Clifford	Ğ	Brooklyn, N. Y	95 College Ave.
Campbell, William Henry, Jr.		Ocean City	122 Hamilton St.
Chittiek, Murray Appleby	s	Old Bridge	Old Bridge
Conger, John Conklin	$\tilde{\mathbf{s}}$	New Brunswick	62 New St.
Conover, Charles Boice	$\tilde{\mathbf{s}}$	New Brunswick	R. F. D. No. 2
Corbin. Eliot Payson	$\widetilde{\mathrm{G}}$		
Corv. Horace Van DerVeer	S	Oxford, N. Y.	77 Hamilton St.
Crandall, Charles Lee	S S	Freehold	144 College Ave.
	S		Y. 113 Winants Hall
Crowe, DuPlessis Helm	8	Edgewater	15 Winants Hall
Cummings, Douglas	S S S	East Orange	114 College Ave.
DeWitt, Elmore Johnson		Jersey City	2 Winants Hall
Embree, Spencer Dawson	S	Westfield	77 Hamilton St.
Engelhard, Charles Howard	S	Plainfield	84 College Ave.
Fleming, Russell	G	New Brunswick	254 Hamilton St.
Folensbee, Bradley Jacob	A	Schenectady, N.	Y. 43 Hertzog Hall
French. Joseph Russell	S	Moorestown	122 Hamilton St.
Friedman, Joseph	S	New Brunswick	298 Burnet St.
Furman, Benjamin Applegate	S	East Orange	East Orange
Gillam, Lawrence Growden	S	Mt. Holly	18 College Ave.
Green, John Calvin, Jr.	L	Hackettstown	63 Winants Hall
Grier, Louis Norman	S	Sewell	97 Winants Hall
Handford, James LeRoy	A	Vineland	122 Hamilton St.
Harker, Mahlon Lee	S	New Brunswick	52 College Ave.
Hervey, George Washington	S	Kingston, N. Y	78 College Ave.
Hoot, Harold Thatcher	S G	Corona, N. Y.	66 Winants Hall
Howell, J. Bertram	G	Newark	2 Winants Hall
Howlett, Ned Orlando	S	New Brunswick	255 Suydam St.
Hubbard, Ralph Moore	S	Basking Ridge	542 George St.
HasBrouck, Ferdinand DePuy	S	Allendale	17 Mine St.
Hunt, Russell Woolston	S	Westfield	Westfield
Jackson, Harry Benjamin	S	Plainfield	78 College Ave.
Jacobsen, Alvin Ralph	S	Perth Amboy	Perth Ambov
Kerr, Joseph	S	Elizabeth	95 College Ave.
Kuhn, Emerich John	S	Rahway	Rahway
Kuntz, Arthur	S	Iselin	Iselin
Langwith, Frank Alvin, Jr.	A	Oceanport	25 Hertzog Hall
Leeds, Marvin	S	Atlantic City	73 Winants Hall
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## REGISTER OF STUDENTS.

Lavina Harman	Q	Von Prunamale	210 Bunnat St
Levine, Herman	S	New Brunswick	218 Burnet St.
Lewis, Lloyd North	A	Roselle Park	542 George St. 17 Mine St.
McCloskey, Warren Durward Malmar, Ward Brewster	S	Point Pleasant	77 Hamilton St.
	S	Brooklyn, N. Y.	
Mandel, Samuel	S	Newark	61 Winants Hall
Martin, Charles Raymond Martin, Louis Wright	S	Bloomfield	542 George St.
	$\ddot{G}$	Metuchen Bonth Ambon	Metuchen
Massopust, Joseph Francis Mercker, Albert Eric	ŝ	Perth Amboy Jersey City	Perth Amboy 34 Winants Hall
Murray, Lester Donald	$\widetilde{\mathbf{A}}$		Jersey City
Noble, John Page	S	Jersey City	
Norcom, George Dusenbery	$\tilde{s}$	Olean, N. Y. Ocean City	52 College Ave. 98 Winants Hall
North, Stanley Underwood	$\tilde{\mathbf{s}}$	Pleasantville	52 College Ave.
Pear, Bernard	S	New Brunswick	1 King Block
Porte, William Solomon	S	Stockton \	97 Winants Hall
Reiner, Israel	S	Woodbine	437 George St.
Richardson, Roy Mundy Davidson	A	Bound Brook	Bleecker Place
Ritchie, Franklin Morrow	A		17 Mine St.
Ritter, Philip, Jr.	G	Brooklyn, N. Y.	17 Mine St.
Rogin, Leo	S	Brooklyn, N. Y. New Brunswick	New Brunswick
Rose, Ime Morris	S	Bound Brook	Bound Brook
Sahn, Samuel Luther	S	New Brunswick	139 Neilson St.
Savitz, Russel Joseph	S	Westfield	114 College Ave.
Schlotterer, George Herman, Jr.	S	Elizabeth	Elizabeth
Schultz, Albert Martin	G		17 Mine St.
Schwanhausser, Walter Emil	S	Arlington	34 Winants Hall
Searle, Raymond Bovey	A	Jersey City New Brunswick	
Searle, Robert Wyckoff	A	New Brunswick	Seminary Place
Sfarra, Alfred Frederick William		Bound Brook	Seminary Place Bound Brook
Shield, Frederick Kull, Jr.	A	New Brunswick	17 Mine St.
Shultz, George Leslie	S	Jamesburg	Jamesburg
Silbert, Samuel	S	Plainfield	84 College Ave.
Smith, George Joseph	S	New York, N. Y.	52 College Ave.
Smith, Harry Brokaw	S	North Plainfield	78 College Ave.
Stang, William Henry	S	New Brunswick	125 Somerset St.
Stanton, Irving Berkeley	S	Bayonne	Bayonne
Steedle, Elroy Wilson	S	Riverton	122 Hamilton St.
Stier, Robert Frederick Emanuel	S	Sayreville	66 Winants Hall
Sullivan, Theodore Green, Jr.	S	Stelton	95 College Ave.
Thomson, Milton Amos	$\mathbf{S}$	New Kingston, N.	Y. Middlebush
Thomson, Ralph William	G	Middlebush	Middlebush
	A	Hyde Park, N. Y.	12 Hertzog Hall
Todd, Harvey Ira Todd, Ralph Ten Broeck	A	Tarrytown, N. Y.	77 Hamilton St.
Toohey, John Peter	S	Newburgh, N. Y.	122 Hamilton St.
Twing, Wainwright Darrow	S	Riverside	122 Hamilton St.
Van Dyck, Laird Sumner	A	Newark	77 Hamilton St.
Van Liew, Harold Wesley	S	New Brunswick	337 Townsend St.
Voorhees, Theodore	A	New Brunswick	Landing Lane
Waksman, Selman Abraham	s	Metuchen	Metuchen
Wallace, Aaron	Ã	Elizabeth •	Elizabeth
Waller, Allen George	s		113 Winants Hall
Warne, Ronson J.	S	Matawan	122 Hamilton St.
Watson, Asher Dudley	L	New Brunswick 1	
Watt, Harry Edward	S	Hamburg	73 Winants Hall
Wheat, Charles Conkling	$\widetilde{\mathbf{A}}$	Liberty Corner	65 Winants Hall
Whyman, Edward	A	Elizabeth	Elizabeth
,			manante

## FRESHMAN CLASS.

CLASS OF 1916.

A = A.B.	Cour	se.
L=Litt.	B. Co	urse.

G=General B.Sc. Course. S=Technical B.Sc. Course.

		~ 20011110111	Dico. Course.
Acken, Ronald Gordon Ainsworth, William Penn	G Ester-	Rahway	Rahway
brook	S	Rahway	87 Winants Hall
Armstrong, Obadiah Pellet	S	Newton	Bleecker Place
Atchley, Donald Brothwell	G	Asbury Park	110 Winants Hall
Austin, Raymond Munkittrick	G	Caldwell	114 College Ave.
Baer, William Whitaker	G	Elizabeth	52 College Ave.
Ball, Edward Minton	G	Blooming dale	Rahway
Bell, Charles Edward	S	Germantown, Pa.	130 Winants Hall
Benjamin, Charles Egbert	G	New York, N. Y.	118 Winants Hall
Bevier, Richard B.	S	Brooklyn, N. Y.	114 College Ave.
Bowles, William Henry	S	Elizabeth	Elizabeth
Boyer, Arthur Leslie	G	East Orange	98 Easton Ave.
Brainard, William A.	S	Saugerties, N. Y.	
Braine, Laurence Fulton, Jr.	S	New York, N. Y.	52 College Ave.
Braun, Christian William	G	Paterson	78 College Ave.
Browning, Dudley Barnitz	A	Perth Amboy	77 Hamilton St.
Buck, George Herman	S	Elizabeth	110 Winants Hall
Buckman, Guy Foster	S	Hudson, N. Y.	17 Mine St.
Buell, Darwin Burton	·A	Painesville, O.	18 College Ave.
Closson, James Harwood, Jr.	$\mathbf{L}$	Germantown, Pa.	
Coleman, James Melville	G	Asbury Park	17 Mine St.
Colville, Clifford James	S	Bayonne	Bayonne
Conklin, Sherman Lindsley	A	Newark	135 Winants Hall
Cranmer, Clarkson Atwood	A	Somerville	14 Hertzog Hall
Drill, Max	S	Newark	146 Winants Hall
Dunlop, Wallace	S	Ridgewood	78 College Ave
Elliott, Robert Walter, Jr.	L	Hartford, Conn.	16 Winants Hali
Elmendorf, Tracy Lake	Ş	Kingston, N. Y.	542 George St.
Elsworth, Roscoe Van Aken	$\mathbf{L}$	Port Ewen, N. Y.	. 78 College Ave.
Farley, Walter Van Horne	S S		Y. 77 Hamilton St.
Fisher, Adrain	G G	New Brownish 1	747 Raritan Ave.
Florance, Edwin	A		61 Livingston Ave.
Furst, Toby Gates, Roy William	S	Newark Plainfield	Newark 30 Winants Hall
Gay, William Louis	G	Wyoming, N. Y.	
Gittleman, Louis Benjamin	G	Newark	Newark
Haenichen, Karl Frederick	S	Paterson	77 Winarts Hall
Haley, Herbert Francis	S	Elizabeth	Elizabeth
Halstead, Harold Norman	Š	Somerville	Somerville
Hand, Donald Dunstan	$\widetilde{\mathbf{A}}$	Keyport	118 Winants Hall
Haney, Paul Sigafoos	A	Quakertown, Pa.	95 Bayard St.
Hannas, Ralston Raymond	S	West New York	134 Winants Hall
Hartley, George Russell	$\widetilde{\mathbf{G}}$	Walden, N. Y.	144 Winants Hall
Hayes, J. Harry	Ğ	Asbury Park	17 Mine St.
Helmrich, Arthur Edward	S	New York, N. Y.	30 Winants Hall
Herrmann, Edgar George	ŝ	Brooklyn, N. Y.	98 Winants Hall
Hiller, Richard Bevier	$\mathbf{s}$	Hurley, N. Y.	29 Hertzog Hall
Horn, Stanley Irving	S	Brooklyn, N. Y.	52 College Ave.
Hruby, Charles	S	Elizabeth	Elizabeth
Hulsart, Robert Pearce	S	Manasquan	145 Winants Hall

## REGISTER OF STUDENTS.

Huntington, J. Henry 3rd Hurley, Edgar Thomas Huttehloch, George Moyer Ingham, Edward Stebbins James, Paul Case Janeway, Harry Latimer Jenhings, Harry Lockwood Kalteissen, Klemmer Kille, Harris Torbert Komp, William H. Wood Kloepfel, Wallace Warren Kreh, Albert Kreemmelbein, Walter Fred Lee, Linwood Lawrenee Lewis, Arthur Robert Lincoln, Adrian Courtney Losee, Edwin Lamb MacClary, Earl Mackenzie, Malcolm McLaughlin, Clifford Anthony McMichael, Robert Evlyn Mann, Harvey Mann, Harvey Mann, Harvey Mann, Harvey Mann, Harvey Mann, Harvey Martin, Robert Van Emburg Meiselel, Erwin Lawrenee Miller, Julian Francis Minton, Adrian Coley Molineux, Edward Leslie, Jr. Molineux, Edward Louis Plusch, Harold Frederick Ratner, Joseph Raven, Anton Adolph, Jr. Reed, Charles Harold Reese, Walter Dilts Schenze, Charles Edwin Schanze, Charles Edwin Schenick, Lawrenee Wilson Schure, William Arold Schore, Clarles Edwin Schure, William Arold Schore, Clarles Edwin Schure, William Arold Schore, Clarles Edwin Schure, William Arold Schore, Clarles Harold Schure, William Arold Schore, Clarles Edwin Schure, William Arold Schore, Clarles Edwin Schure, William Arold Schore, Clarles Edwin Schemick, Lawrence Wilson Schemick, Lawrence Wilson Schemick, Lawrence Wilson Schemick, Lawrence Wilson Schemick, Georges Dayez Schure, William Arold Schore, Charles Edwin Schemick, Lawrence Wilson Schemick, Georges Dayez Schmidt, David Schore, Charles Edwin Schemick, Lawrence Wilson Schemick, George Sayez Scharles Harold Schore, Charles Edwin Schemick, Lawrence Wilson Schem		~	
Huttenloed, George Moyer Ingham, Edward Stebbins James, Paul Case Janeway, Harry Latimer Jenkins, Dean Carter Jennings, Harry Lockwood Rolepfel, Wallace Warren Krile, Harris Torbert Kromp, William H. Wood Kloepfel, Wallace Warren Kreh, Albert Kren, Albert Kremmelbein, Walter Fred Lee, Linwood Lawrenee Lewis, Arthur Robert Lincoln, Adrian Courtney Losee, Edwin Lamb MacClary, Earl Mackenzie, Malcolm MeLaughlin, Clifford Anthony MeLaughlin, Clifford Anthony Magens, Garrett Berry Martin, Robert Van Emburg Merin, Robert Van Emburg Merin, Adrian Coley Molineux, Edward Losie, Jr. Monteith, John Morey, Clarence Albert Molineux, Edward Losie Power  Janeway, Martin, Robert Morey, Clarence Albert Molineux, Edward Losis Power Martin, Robert Morey, Clarence Albert Molineux, Edward Louis Plusch, Harold Frederick Ratner, Joseph Raven, Anton Adolph, Jr. Reed, Charles Harold Rosek, George Bayez Rosen, Theodore Roseled Soven Shokan, N. Y. Shokedsboro Shokan, N. Y. Shokan, N. Y. Shokedsboro Shokan, N. Y. Shokan, N. Y. Shokedsboro Shokan, N. Y. Shokedsboro Shokan, N. Y. Shokedsboro Shokan, N. Y. Shokedsboro Shokedsboro Shokan Martford, Conn. It Hertzog Hall Collega Ave. Shokana,	Huntington, J. Henry 3rd		Newark 90 Winants Hall
Huttenloed, George Moyer Ingham, Edward Stebbins James, Paul Case Janeway, Harry Latimer Jenkins, Dean Carter Jennings, Harry Lockwood Rolepfel, Wallace Warren Krile, Harris Torbert Kromp, William H. Wood Kloepfel, Wallace Warren Kreh, Albert Kren, Albert Kremmelbein, Walter Fred Lee, Linwood Lawrenee Lewis, Arthur Robert Lincoln, Adrian Courtney Losee, Edwin Lamb MacClary, Earl Mackenzie, Malcolm MeLaughlin, Clifford Anthony MeLaughlin, Clifford Anthony Magens, Garrett Berry Martin, Robert Van Emburg Merin, Robert Van Emburg Merin, Adrian Coley Molineux, Edward Losie, Jr. Monteith, John Morey, Clarence Albert Molineux, Edward Losie Power  Janeway, Martin, Robert Morey, Clarence Albert Molineux, Edward Losis Power Martin, Robert Morey, Clarence Albert Molineux, Edward Louis Plusch, Harold Frederick Ratner, Joseph Raven, Anton Adolph, Jr. Reed, Charles Harold Rosek, George Bayez Rosen, Theodore Roseled Soven Shokan, N. Y. Shokedsboro Shokan, N. Y. Shokan, N. Y. Shokedsboro Shokan, N. Y. Shokan, N. Y. Shokedsboro Shokan, N. Y. Shokedsboro Shokan, N. Y. Shokedsboro Shokan, N. Y. Shokedsboro Shokedsboro Shokan Martford, Conn. It Hertzog Hall Collega Ave. Shokana,	Hurley, Edgar Thomas	S	Baldwin, L.I., N.Y. 143 Winants Hall
Huttenloch, George Moyer Ingham, Edward Stebbins James, Paul Case Janeway, Harry Latimer Jenkins, Dean Carter Jennings, Harry Lockwood Kalteiseen, Klemmer Kille, Harris Torbert Komp, William H. Wood Kloepfel, Wallace Warren Kree, Albert Kroemmelbein, Walter Fred Lee, Linwood Lawrenee Lewis, Arthur Robert Lincoln, Adrian Courtney Losee, Edwin Lamb MacClary, Earl Mackenzie, Malcolm McLaughlin, Clifford Anthony Miller, Julian Francis Minton, Adrian Coley Martin, Robert Van Emburg Meisel, Erwin Lawrenee Miller, Julian Francis Minton, Adrian Coley Molineux, Edward Leslie, Jr. Montelaith, John Morey, Clarenee Albert Molineux, Edward Leslie, Jr. Monteith, John Morey, Clarenee Albert Mulligan, James Eugene Noriega, Manuel Payne, William Warren Peppel, Edward Louis Plusch, Harold Frederick Ratner, Joseph Raven, Anton Adolph, Jr. Reed, Charles Harold Reese, Walter Ditts Rockafeller, Harry Joseph, Jr. Rocklafeler, Harry Joseph, Jr. Rocklafeler, Harry Joseph, Jr. Rocker, Georges Dayez Rosen, Theodore Gearn, James Bernard Schanring-Hausen, Robert Louis Schennidt, David Schoommaker, Ellis Harold Schoommaker, Ellis Harold Shanner, Stabery Park Survark	Hutchinson, William Thomas	S	
Ingham, Edward Stebbins   James, Paul Case   Shokam, N. Y.	Huttonlook Coorgo Moyor		
Janeway, Harry Latimer Jenkins, Dean Carter Jennings, Harry Lockwood Kalteissen, Klemmer Kille, Harris Torbert Kromp, William H. Wood Kloepfel, Wallace Warren Kreh, Albert Kroemmelbein, Walter Fred Lee, Linwood Lawrence Lewis, Arthur Robert Lincoln, Adrian Courtney Losee, Edwin Lamb Mackanzie, Malcolm Maclaughlin, Clifford Anthony MeMichael, Robert Evlyn Magens, Garrett Berry Mann, Harvey Mann, Harvey Martin, Robert Van Emburg Meisel, Erwin Lawrence Miller, Julian Francis Miller, Julian Francis Molineux, Edward Leslie, Jr. Monteith, John Morey, Clarence Albert Mulligan, James Eugene Noriega, Manuel Payne, William Warren Peppel, Edward Louis Plusch, Harold Frederick Post, Clifford Frederick Post, Clifford Frederick Post, Clifford Frederick Rutherford Sclizabeth Elizabeth Elizabeth Elizabeth Elizabeth Sclizabeth Sclit Golege Ave. A New Bronswick Sclizabeth Sclizabeth Sclizabeth Sc	Truttenroen, George Moyer		
Janeway, Harry Latimer Jenkins, Dean Carter Jennings, Harry Lockwood Kalteissen, Klemmer Kille, Harris Torbert Komp, William H. Wood Kloepfel, Wallace Warren Kreh, Albert Kroemmelbein, Walter Fred Lee, Linwood Lawrence Losee, Edwin Lamb MacClary, Earl Mackenzie, Malcolm Mackenzie, Malcolm MacMagens, Garrett Berry Mann, Harvey Martin, Robert Evlyn Magens, Garrett Berry Mann, Harvey Martin, Robert Van Emburg Meisel, Erwin Lawrence Miller, Julian Francis Molineux, Edward Leslie, Jr. Monteith, John Morey, Clarence Albert Mulligan, James Eugene Noriega, Manuel Payne, William Warren Peppel, Edward Louis Plusch, Harold Frederick Rockafeller, Eugene Francis Rockafeller, George Baneroft Romeike, George Baneroft Romeike, George Baneroft Romeidt, David Schoonmaker, Ellis Harold Springfield			
Janeway, Harry Latimer Jenkins, Dean Carter  Jennings, Harry Lockwood Kalteissen, Klemmer Kille, Harris Torbert Komp, William H. Wood Kloepfel, Wallace Warren Kreh, Albert Kroemmelbein, Walter Fred Lee, Linvood Lawrence Lewis, Arthur Robert Lincoln, Adrian Courtney Losee, Edwin Lamb MacClary, Earl Mackenzie, Malcolm McLaughlin, Clifford Anthony McLaughlin, Clifford Anthony McMichael, Robert Evlyn Magens, Garrett Berry Mann, Harvey Martin, Robert Van Emburg Milier, Julian Francis Molineux, Edward Leslie, Jr. Molineux, Edward Leslie, Jr. Molineux, Edward Leslie, Jr. Molineux, Edward Leslie, Jr. Molineux, Edward Louis Plusch, Harold Frederick Molineux, William Warren Peppel, Edward Louis Plusch, Harold Frederick Gokafeller, Fugene Francis Rockafeller, Fugene Francis Rockafeller, Eugene Francis Rockafeller, Lugene Francis Rockafeller,	James, Paul Case	S	Shokan, N. Y. 31 Hertzog Hall
Jenkins, Dean Carter Jennings, Harry Lockwood Kalteiseen, Klemmer Kille, Harris Torbert Komp, William H. Wood Kloepfel, Wallace Warren Kreh, Albert Kroemmelbein, Walter Fred Lee, Linwood Lawrence Lewis, Arthur Robert Lincoln, Adrian Courtney Losee, Edwin Lamb Mackanzie, Malcolm Maclaughlin, Clifford Anthony McMichael, Robert Evlyn Magens, Garrett Berry Mann, Harvey Martin, Robert Van Emburg Miller, Julian Francis Miller, Julian Francis Monteith, John Morey, Clarence Albert Monteith, Monteith, Monteith Monteith, Arthur College Ave.  New Brunswick  Stanley  Martin, Robert Van Emburg Meisel, Erwin Lamben  Metuchen		L	
Jennings, Harry Lockwood Kalteissen, Klemmer Kille, Harris Torbert Komp, William H. Wood Kloepfel, Wallace Warren Kloepfel, Wallace Warren Kren, Albert Kroemmelbein, Walter Fred Lee, Linwood Lawrence Lee, Linwood Lawrence Losee, Edwin Lamb Losee, Edwin Lamb Gup, Red Hook, N. Y. MacClary, Earl MacClary, Earl MacClary, Earl MacClary, Earl Mackenzie, Malcolm McLaughlin, Clifford Anthony McLaughlin, Clifford Anthony McLaughlin, Clifford Anthony Martin, Robert Evlyn Mann, Harvey Martin, Robert Van Emburg Meisel, Erwin Lawrence Miller, Julian Francis Minton, Adrian Coley Molineux, Edward Leslie, Jr. Molneut, John Molrey, Clarence Albert Mulligan, James Eugene Noriega, Manuel Payne, William Warren Peppel, Edward Louis Plusch, Harold Frederick Rockafeller, Eugene Francis Rockafeller,	Jonkins Doan Carter		
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Plusch, Harold Frederick Post, Clifford Frederick Ratner, Joseph Raven, Anton Adolph, Jr. Reed, Charles Harold Reese, Walter Dilts Rockafeller, Eugene Francis Rockafeller, Harry Joseph, Jr. Roesh, George Bancroft Rosen, Theodore Rosen, Theodore Rosen, Theodore Rockarring-Hausen, Robert Louis Schenck, Lawrence Wilson Schaftler, Harrold Rosen, Clifford Frederick Gerrald Port Jervis, N. Y. Pighland Park Righland Pa		L	
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Ratner, Joseph Raven, Anton Adolph, Jr. Reed, Charles Harold Reese, Walter Dilts Rockafeller, Eugene Francis Rockafeller, Harry Joseph, Jr. Roebling, Paul Romeike, Georges Dayez Rosen, Theodore Rosen, Theodore Rosen, Theodore Scharring-Hausen, Robert Louis Schenck, Lawrence Wilson Scharles Harold S New Brunswick Row Brunswick Rose Brunswick Row Brunswick Roth Row Brunswick Row Brunswick Rothes, Carmel Stollege Ave. Po Catker Row Bornard Row Brunswick Rowell Rowe Rockafeller, Louis S Newark Rockafeller, Louis S Newa			
Raven, Anton Adolph, Jr.  Reed, Charles Harold Reese, Walter Dilts Reese, Walter Dilts Rockafeller, Eugene Francis Rockafeller, Eugene Francis Rockafeller, Harry Joseph, Jr. Roesch, George Bancroft Roesch, George Bancroft Roesch, George Bancroft Rosen, Theodore Rosen, Theodore Rosen, Theodore Rosen, Charles Edwin Schanze, Charles Edwin Scharring-Hausen, Robert Louis Schenck, Lawrence Wilson Scharles Harold Roesch, Charles Edwin Schoonmaker, Ellis Harold  A New Brunswick New Frunswick Nathamswick New Ashury Park New 95 College Ave. New York, N. Y. New York, N. Y. New York, N. Y. New Winants Hall Schoonmaker, Ellis Harold New Wark Newark Ne			
Reed, Charles Harold Reese, Walter Dilts Reese, Walter Dilts Richardson, William Thaddeus Rockafeller, Eugene Francis Rockafeller, Harry Joseph, Jr. Roeseh, George Bancroft Romeike, Georges Dayez Rosen, Theodore Rosen, Theodore Rosen, Theodore Rosen, Theodore Rosen, Theodore Rosen, Charles Edwin Rosen, Charles Edwin Rosen, Charles Edwin Rosen, Charles Edwin Rosen, Lawrence Wilson Robert Louis Roewark Ro			
Reese, Walter Dilts  Richardson, William Thaddeus Rockafeller, Eugene Francis Rockafeller, Harry Joseph, Jr. Roesch, George Bancroft Romeike, Georges Dayez Rosen, Theodore Ro			
Richardson, William Thaddeus Rockafeller, Eugene Francis Rockafeller, Harry Joseph, Jr. Roesh, George Bancroft Roseh, George Bancroft Rosen, Theodore Rosen, T	Reed, Charles Harold		New Brunswick 207 Redmond St.
Richardson, William Thaddeus Rockafeller, Eugene Francis Rockafeller, Harry Joseph, Jr. Roesling, Paul Roesch, George Bancroft Romeike, Georges Dayez Rosen, Theodore Rosen, T	Reese, Walter Dilts	S	Westfield 114 College Ave.
Rockafeller, Eugene Francis Rockafeller, Harry Joseph, Jr. Roebling, Paul Roesch, George Bancroft Rosen, Theodore Rosen, Theodore Scharring-Hausen, Robert Louis Schenck, Lawrence Wilson Schenck, Lawrence Wilson Schoonmaker, Ellis Harold  G Asbury Park A Bernardsville A Bernardsville Bloomfield Remedy York, N. Y. Remailer Asbury Park A Bernardsville Rosen, 95 College Ave. 95 College Ave. 95 College Ave. 96 Cormel Romedy York, N. Y. 18 College Ave. 96 Winants Hall Newark S Winants Hall		S	Catskill, N. Y. 18 College Ave.
Rockafeller, Harry Joseph, Jr. Roebling, Paul Rosech, George Bancroft Rosen, Theodore Rosen, Theodore Scharring-Hausen, Robert Louis Schenck, Lawrence Wilson Schenidt, David Schoommaker, Ellis Harold  Garages Asbury Park A Bernardsville Bloomfield Remradsville Romends Paul Remradsville Remr			
Roebling, Paul  Roesch, George Bancroft  Romeike, Georges Dayez  Rosen, Theodore  Rosen, James Bernard  Schanze, Charles Edwin  Scharring-Hausen, Robert Louis  Schenck, Lawrence Wilson  Schoonmaker, Ellis Harold  A Bernardsville  Romendsville  Romendsville  110 Winants Hall  1 Winants Hall  1 Winants Hall  Rowey York, N. Y.  18 College Ave.  Rosen, Theodore  G Carmel  Rowark  S Newark  90 Winants Hall  Schenck, Lawrence Wilson  S Atlantic City  Rowark  S Yorktown, Va.  66 Winants Hall  Schoonmaker, Ellis Harold  S Hasbrouck Heights  43 Winants Hall			
Roesch, George Bancroft Romeike, Georges Dayez Rosen, Theodore Grammel Scarr, James Bernard Schanze, Charles Edwin Scharring-Hausen, Robert Louis Schenck, Lawrence Wilson Schmidt, David Schoonmaker, Ellis Harold Seloomfield 1 Winarts Hall Rowey York, N. Y. 18 College Ave. Hasbrouck Heights 40 Winants Hall Rowey Winarts 18 College Ave. 18 College Ave. Newark 90 Winants Hall Schmidt, David Syorktown, Va. 66 Winants Hall Schoonmaker, Ellis Harold S Hasbrouck Heights 43 Winants Hall	Rockatener, narry Joseph, Jr.		
Romeike, Georges Dayez  Rosen, Theodore  Georges Dayez  Georges  Heights 40 Winants Hall  Schemidt, David  Separate City  Georges Dayez  Georges  Ave.  Carmel  To Winants Hall  Schemidt, David  Separate  Separate  Georges  Georges  Ave.  Action City  To Winants  To Winants  Georges  Georges  Ave.  Ave.			and the second s
Rosen, Theodore Scarr, James Bernard Schanze, Charles Edwin Schenck, Lawrence Wilson Schmidt, David Schoonmaker, Ellis Harold School Carmel Hasbrouck Heights Hall Hasbrouck Heights Heights Heights Hall Hall Hasbrouck Heights Hall Hall Hall Hall Hall Hall Hall Hal	Roesch, George Bancroft		Bloomfield 1 Winarts Hall
Scarr, James Bernard Schanze, Charles Edwin Scharring-Hausen, Robert Louis Schenck, Lawrence Wilson Schmidt, David Schoonmaker, Ellis Harold School S	Romeike, Georges Dayez	G	New York, N. Y. 18 College Ave.
Scarr, James Bernard Schanze, Charles Edwin Scharring-Hausen, Robert Louis Schenck, Lawrence Wilson Schmidt, David Schoonmaker, Ellis Harold School S	Rosen, Theodore	G	Carmel 76 Winants Hall
Schanze, Charles Edwin Scharring-Hausen, Robert Louis Schenck, Lawrence Wilson Schmidt, David Schoonmaker, Ellis Harold Schmidt, David Schoonmaker, Ellis Harold Schmidt, David			Hashrouck Heights 40 Winants Hall
Scharring-Hausen, Robert Louis S Newark 90 Winants Hall Schenck, Lawrence Wilson S Atlantic City 78 Winants Hall Schmidt, David S Yorktown, Va. 66 Winants Hall Schoonmaker, Ellis Harold S Hasbrouck Heights 43 Winants Hall			
Schenck, Lawrence Wilson S. Atlantic City 78 Winants Hall Schmidt, David S. Yorktown, Va. 66 Winants Hall Schoonmaker, Ellis Harold S. Hasbrouck Heights 43 Winants Hall			
Schmidt, David S Yorktown, Va. 66 Winants Hall Schoonmaker, Ellis Harold S Hasbrouck Heights 43 Winants Hall			
Schmidt, David S Yorktown, Va. 66 Winants Hall Schoonmaker, Ellis Harold S Hasbrouck Heights 43 Winants Hall	Schenck, Lawrence Wilson		
Schoonmaker, Ellis Harold S Hasbrouck Heights 43 Winants Hall	Schmidt, David	S	Yorktown, Va. 66 Winants Hall
		S	Hasbrouck Heights 43 Winants Hall
		S	Bound Brook 542 George St.

Segur, Herbert Crittenden	G	Dover	95 College Ave.
Seidman, Herbert Walter	S	New Brunswick	College Farm
Seiler, Ralph George	S	Elizabeth	95 College Ave.
Sharp, Lawrence Willis	S	Sea Isle City	16 Winants Hall
Shield, Lansing Porter	A	New Brunswick	Highland Park
Sloane, Harry	S	New Brunswick	57 Morris St.
Smaney, Edward Paul	S	Roselle	Roselle
Smith, Theodore Howard	S	Kingston, N. Y.	542 George St.
Sprague, William Smith	Ğ	Barnegat	43 Winants Hall
Strohl, Raymond	Š	Elizabeth	Elizabeth
Succop, David Carle	$\tilde{ ext{S}}$	Pittsburgh, Pa.	78 College Ave.
Talman, Howard Parker	- Š	Spring Valley, N.	
Taylor, Eugene Richmond	ŝ	Salem	117 Winants Hall
Taylor, Lewis Jerome	Ğ	Asbury Park	95 College Ave.
Thomas, Benjamin Edmund	Ğ	Bound Brook	Bound Brook
Thompson, Herbert Addison	š	Olean, N. Y.	78 College Ave.
Ulrich, Frederick John	$\tilde{\mathbf{s}}$	Haledon	122 Hamilton St.
Van Middlesworth, John	$\tilde{ ext{S}}$	Middlebush	Middlebush
Voorhees, Frederic	Ã	New Brunswick	Bishop Place
Voorhees, John Schenck	S	New Brunswick	Bishop Place
Voorhees, Ralph Whitaker	Ã	New York, N. Y.	
Watman, Albert	S	Bayonne Chur	
Wells, William Chester, Jr.	$\tilde{ extbf{L}}$	Bound Brook	Bound Brook
Wendel, Hugo Otto	Ā	Linden	Linden
West, Paul Sandt	G	Asbury Park	17 Mine St.
Whisler, George Henry	Ā	Newark	33 Hertzog Hall
White, Ralph Pollock	Ĝ	New Brunswick	Easton Ave.
Wiemer, Otto Edward	Ğ	Rahway	Rahway
Willever, Earl Strouse	š	Belvidere	542 George St.
Wolff, Frederick Willard	Ğ	New Brunswick	Highland Park
Wood, Walter Klemmer	Š	New Brunswick	208 Redmond St.
Zass, Joseph Samuel	$\tilde{G}$	Woodbine	142 Winants Hall
, Jacky January			

## SPECIAL STUDENTS.

## NOT CANDIDATES FOR A DEGREE.

(A indicates Classical School.	S indicates Scientific School.)
,	Paterson . 29 Hertzog Hall Brooklyn N Y 17 Mine St.

## SUMMARY.

Graduate Students	2
Seniors, Class of 1913 6	9
Juniors, Class of 1914	
Freshmen, Class of 1916	
Special Students ,	
Total	9

### REGISTER OF STUDENTS.

#### SHORT COURSES IN AGRICULTURE.

### STUDENTS 1912-1913.

G=Course in General Agriculture and Dairy Farming. F=Course in Fruit Growing and Market Gardening. P=Course in Poultry Husbandry. H=Course in Home Economics.

Acken, Amy	$\mathbf{H}$	Metuchen Metuchen
Ayers, Ellis Henry	P	Metuchen Metuchen
Baldwin, Elbert Stephen	P	Denville 5 Winants Hall
Baldwin, Ralph Craig	G	Montclair 28 Redmond St.
Bassett, Herbert Townsend	G	Salem 18 Jones Ave.
Beam, Edward	Ğ	Paterson 47 Bayard St.
A.B., Brown University	~	
Benson, Jacob	F	Woodbine 56 New St.
Blackledge, Benjamin Franklin	G	Hackensack 50 Welton St.
	P	Juliustown 204 Commercial Ave.
Bloom, George Maxwell	_	
Boggs, George Painter, Jr.	F	
Boulger, Rita Rosina	H	New Brunswick 272 George St.
Breese, William Clark	G	Jersey City 168 George St.
Brodix, John Weedman	G	Jobstown Jobstown
A.B., Columbia		
Burtis, John Carroll	$\mathbf{F}$	Allentown 52 Bishop St.
Cahill, Arthur Joseph	G	Jersey City 168 George St.
Chapman, Ada May	$\mathbf{F}$	Westfield The Bayard
Clark, Elizabeth de la Cour	$\mathbf{H}$	Moorestown The Bayard
Clark, Irving Wayne	F	Moorestown The Bayard
C.E., Princeton		·-
Claypoole, Clarence Leroy	G	Vineland 50 Welton St.
Cole, Ada Louise	H	New Brunswick 267 George St.
Collins, Thomas Roger	G	Livingston 22 Louis St.
Combs, Isaac, Jr.	F	Livingston 273 George St.
Cook, Robert G.	P	Atl. Highl'ds 83 Commercial Ave.
Cooke, Warren Emily	Ĝ	Mount Royal 131 Townsend St.
Cowperthwait, Charles Coles	G	Medford 193 George St.
Crane, William Asher	F	Caldwell 18 Jones Ave.
Davis, George Leon	Ğ	Bridgeton 208 Commercial Ave.
Davis, Thomas Weatherby		Woodstown 50 Welton St.
Dollart Sidner Trans	G	
DeHart, Sidney Isaac	G	
Dick, Langhorne Bullitt	G	Philadelphia, Pa. Philadelphia
Doggett, Allen Barrows, Jr.	F	Englishtown 26 Redmond St.
A.B., Dartmouth		
DuBois, Hugh Ellison	G	Montclair 45 Baldwin St.
Durell, Marian	$\mathbf{F}$	Lawrenceville Delevan St.
B.A., Wellesley		
Durell, Thomas Jackson	G	Belle Plain Delevan St.
A.B., Princeton		
Dye, Frank	G	Ridgewood Nichol Ave.
Earl, Howard I.	F	Elizabeth Elizabeth
Eaton, Isabella Russell	P	Washington, D. C. 45 Delevan St.
Eble, Harold Albert	P	East Orange 29 Morris St.
Eickhoff, Osmer Wenzel	Ğ	Hackensack 3 Elm Row
Ellis, Charles Walter	P	Paterson 60 Baldwin St.
Emken, Wilhelmine	P	Jersey City 190 George St.
Erlandson, George Eric	F	Paterson 69 New St.
The state of the s	T.	Tatoroon Oo Ivew St.

# REPORT OF RUTGERS SCIENTIFIC SCHOOL.

17. II. D. 7			
Falke, Paul	G	Pompton Plains 216 Seaman St.	
Fick, Harold Rapelye	G	New Brunswick 116 Livingston Ave.	
Fink, George Andrew	G	Guttenberg 140 George St.	
Finley, Warren Birt	G	Bridgeton 196 George St.	
Fischer, Adelbert Frank	G	Newark 87 Hassart St.	
Fischer, Robert Daniel	$\mathbf{F}$	Milltown Milltown	
Fisher, Linn Allen Fretz, Leo Hasleden	G	Houses 35 Oliver St.	
Fretz, Leo Hasleden	G	Cedar Grove 542 George St.	
Fund, August William	G	Livingston · 22 Louis St.	
Garcia, Jose	F	New Brunswick George St.	
Gilmore, Edgar Schermerhorn	G	East Orange Mansion House	
Godfrey, Harold Edwin	$\mathbf{F}$	Morristown 173 George St.	
Greer, Thomas Anderson	G	Brooklyn, N. Y. Brooklyn	
Groth, Mathilde	P	Highland Park Highland Park	
Gustafson, John Walter	$\mathbf{F}$	Jersey City 111 Bayard St.	
Halprin, Morris Arthur	$\mathbf{F}$	New Brunswick College Farm	
Hampton, Julius Diemer	G	Pemberton 26 Codwise Ave.	
Hedden, Fred	F	Dover 56 Bishop St.	
Hendershot, Louis	G	Newton 56 Bishop St.	
Hendrickson, John Griffith	G	Princeton Princeton	
Hendrickson, William Tilton	G	Freehold 52 Bishop St.	
Holson, Leis Bowman	P	Mount Holly 5 Neilson St.	
Hope, Harold Hudson	F	Madison Jones Ave.	
Janeway, Mary Alison	H	New Brunswick 17 Livingston Ave.	
Johnson, John August	G	Dover 142 George St.	
Johnston, Herbert Rapelye	Ğ	New Bruns'k 116 Livingston Ave.	
Jones, Budd McKinley	$\widetilde{\mathbf{G}}$	Blairstown 30 Comstock St.	
Julie, Roy Emil	$\mathbf{F}$	Brooklyn, N. Y 18 College Ave.	
Kaufold, Ernest Henry	Ĝ	Brooklyn, N. Y. 45 Baldwin St.	
Katcher, Rose	H	Flemington 55 Commercial Ave.	
Kessler, Bertram Joseph	F	Jersey City 131 Townsend St.	
Kirby, Amos	F	Mullica Hill 50 Welton St.	
Koeller, Alfred Herbert Charles	F	Ridgefield Park 168 George St.	
Leach, Phineas Bommer	G	Park Ridge 168 George St.	
Le Boutillier. Clement	G	High Bridge 51 Comstock St.	
Ph.B., Columbia	G		
Leibe, Augustus Charles	P	Bound Brook Bound Brook	
Lewis, Chester	G	Woodcliff Lake 168 George St.	
Lindsay, Thomas	P	Plainfield 275 George St.	
Long, Thomas Ware	G	Essex Fells 23 Jones Ave.	
Lott, Ralph Bacon	Ğ	Bridgeton 9v Commercial Ave.	
McBean, Archibald Forschel	G	Springfield Springfield	
McCaffrey, Francis Joseph	Ğ	New York, N. Y. 293 Redmond St.	
McCaffrey, Josefina Jorrin	H	New York, N. Y. 293 Redmond St.	
McCaffrey, Raymond James	G	Pensauken, 204 Commercial Ave.	
McChesney, Watson John	G	Jamesburg Nichol Ave.	
McChesney, Watson John McDonald, Frank Aloysius	G	Hackettstown 273 George St.	
McNair, Wilson Day	P	Herndon, Va. 45 Baldwin St.	
MacMonnies, Wallace	F	Westfield 140 George St.	
MacFarlan, Reuben	G G	Hawthorne 35 Oliver St.	
MacLauchlan, Margaret	H	Metuchen Metuchen	
Madge, Harry Silas	G	Freehold 52 Bishop St.	
Magill, Samuel James	G	Audubon 216 Seaman St.	
Martin, Frank Edward	F	Morristown 173 George St.	
Maxwell, Donald Gerard	Ğ	Westfield 56 Bishop St.	
Maybaum, Paul Stein	P	Newark 142 George St.	
, and storing	1	. Toward 142 George ISt.	

## REGISTER OF STUDENTS.

Mayo, Guy Eaton	G	New Brunswick 216 H	Redmond St.
Merrill, Leavitt King, Jr.	P	New York, N. Y.	56 New St.
Meseroll, Elwood Irving	F	New Brunswick New	Brunswick
Miller, Anna Mae	H	Somerville	Somerville
Moon, Francis Morton	F	Edgewater 42	Baldwin St.
Moreau, Frank Jones Morey, Wallet Eugene	$\mathbf{F}$		George St.
Morey, Willet Eugene	P	Princeton 216	Seaman St.
Ortholf, Walter Frederick Parker, George Douglas Parker, Rosalie Yoonnet Parvin, Boyd Carl	G	Belleville	Nichol Ave.
Parker, George Douglas	$\mathbf{F}$	Little Silver	Elizabeth
Parker, Rosalie Yoonnet	$\mathbf{F}$	New Brunswick 22	Jones Ave.
Parvin, Boyd Carl	G	Elmer 78	Bayard St.
Pattison, Diantha Hart	$\mathbf{H}$	Colonia	Colonia
Pennie, Kenneth Robert	F	New York, N. Y. 29	Jones Ave.
Perkins, Harold Center	F	Vineland 50	Welton St.
Platt, Richard Morris	G	Madison 193	George St.
Polinsky, Samuel	P	New Brunswick Ge	orge's Road
Pomeroy, Minora Puerto, Marco Aurelio Reichl, Robert	P	Rahway	Rahway
Puerto, Marco Aurelio	G	Maywood 212 I	Redmond St.
Reichl, Robert	P	Vineland 56	Bishop St.
Reynolds, Frances Allen	$\mathbf{H}$	Manasauan 30 C	omstock St.
Reynolds, Frances Allen Roberts. Morris Harry, Jr.	G	Maplewood 206	Handy St.
Rogers, Joseph Harrison	_ F	Maplewood 206 Pemberton 204 Com	nercial Ave.
Rood, Herbert Percy	G	Mendham 55	2 Oliver St.
Rose, Paul Royal	P	Trenton 131 To	wnsend St.
Rosenkrans, John Victor	F	Newton	ollege Farm
Rosenthal, Eleanor Violet	$\mathbf{H}$		ollege Farm
Ross, Benjamin Frederick	G	Bernardsville	56 New St.
Ruckman, Arthur Ira	G	New Brunswick R.	F. D. No. 5
Ryan, Richard Butler Francis	P	Dunellen	Dunellen
Saltonstall, Henry Brayton	G	Elizabeth	Elizabeth
Schanze, Laura Paine	H	Newark	Newark
Schanze, Laura Paine Schick, Hermann	G		Nichol Ave.
Schiff, Aaron	G		George St.
Schnackenberg, Herman Henry	G		56 New St.
Scoble, Charles Robert	G		Seaman St.
Scott, Thomas Norris	G		35 Oliver St.
Shane, Arthur Elliott	P		George St.
Shield, Lansing Peter Shute, Walter Waddington	P	New Brunswick Hig	hland Park
Shute, Walter Waddington	F	Bridgeton 208 Comm	
Singer, Romy	G	West Hoboken	56 New St.
Smith, Percy Harold	$\mathbf{F}$	Weston	Weston
Smith, Robert Harmer	G		3 Elm Row
Smith, Robert Harmer Solof, Nathan	G	Bridgeton 102 Comm	
Spargo, Norman Stanley	G	Dover 142	George St.
Spear, Edward Buckingham	G	Metuchen	Metuchen
Sperling, Edith Magdalene	P		River Road
Stern, Israel	$\mathbf{F}$		Burnet St.
Stillman, Frank William	G	Rahway	Rahway
Stillwell, Madge	$\mathbf{H}$		nercial Ave.
Stone, William Raymond	G	Trenton	Trenton
Stranahan, Grace Elder	$\mathbf{F}$		The Bayard
Swing, George Snellgrove	P		Nichol Ave.
Tait, Madelyn Dana	$\mathbf{H}$	Metuchen	Metuchen
Tait, William Walker	G		Bishop St.
Taylor, Ralph	$\mathbf{F}$		Welton St.
Terry, Harry Lewis	F	Plainfield	Plainfield
Terry, Harry Lewis Thomas, William Carlton	G.		nercial Ave.
		202 301111	

## REPORT OF RUTGERS SCIENTIFIC SCHOOL.

Thourot, Clarence Constance	P	Guttenberg	140 George St.
Tice, Viola	H	New Brunswick	92 Albany St.
Van Dyke, Ethel	H	Jamesburg	Jamesburg
Van Nuys, Peter P.	G	Belle Mead	52 Bishop St.
Van Valkenburgh, Willard	G	Bloomfield	52 Oliver St.
Van Zandt, John Percy	G	Blawenburg	52 Bishop St.
Varnum, Nelson Edwin	F	Atco	140 Redmond St.
Vogler, George Robert	F	Ridgewood	255 George St.
Vogler, John Elias	P	Ridgewood	255 George St.
Vogler, Otto Charles	P	Jersey City	255 George St.
Wagener, Harold Lockwood	G	New Brunswick	137 Suydam St.
Wasson, Thomas Campbell	G	Newark	College Farm
Waterman, Herbert Langdon	G	East Orange	86 Bayard St.
Webb, Donald William	P	Bound Brook	Bound Brook
Weinblatt, Abraham Bernard	F	Bridgeton	56 New St.
Wenneis, Dolly	H	Weehawken 93	Commercial Ave.
Wharton, Lewis Morris	F	East Orange	29 Morris St.
Whelan, Raymond Pierson	G.	Jersey City	54 Baldwin St.
Wible, Frank Nelson	G	Deerfield	196 George St.
Wilcox, Kenneth Osborn	F	Westfield	140 George St.
Willey, John Jay	F	Keyport	56 Bishop St.
Wilson, Margery	H	Metuchen	Metuchen
Woolley, Charles Chester	G	New York, N. Y.	47 Bayard St.
Wyckoff, Kenneth Miller	G	Red Bank	52 Bishop St.
Chart Course students			178
Short Course students			
Total student registration			



